

ExxonMobil
 Environmental Services Company
 13421 North Freeway
 Houston, TX 77060
 281-654-0326 Telephone
 281-654-9407 Facsimile



February 14, 2013

Mr. Luis Changkuon
 California Regional Water Control District
 Los Angeles Region
 320 West 4th Street, Suite 200
 Los Angeles, California 90013

SUBJECT Second Half 2012 Groundwater Monitoring and Status Report
 Former ExxonMobil Jalk Fee Property
 10607 Norwalk Boulevard
 Santa Fe Springs, California
 CRWQCS-LAR Case No. 0203; Site I.D. No 1848000

Mr. Changkuon:

Enclosed for review is a copy of the *Second Half 2012 Groundwater Monitoring and Status Report* (Report) documenting the groundwater monitoring activities at the above-referenced site. ExxonMobil Environmental Services' consultant, Cardno ERI, prepared this report.

I, Aaron Thom, do hereby declare, under penalty of perjury under the laws of the State of California, that I am Project Manager for ExxonMobil Environmental Services, that I am authorized to attest to the veracity of the information contained in the report described herein, and that the information contained in the Report for the subject site dated February 14, 2013 is true and correct, and that this declaration was executed at Houston, Texas, on February 14, 2013.

Please call the undersigned at (281) 654-0326 for any questions regarding the content of this Report.

Sincerely,

Aaron Thom
 Project Manager
 ExxonMobil Environmental Services

cc: Mr. James Anderson, Cardno ERI (w/o enclosure)

Enclosure:

Second Half 2012 Groundwater Monitoring and Status Report dated February 14, 2013

February 14, 2013

Mr. Luis Changkuon
 California Regional Water Quality Control Board, Los Angeles Region (4)
 320 West 4th Street, Suite 200
 Los Angeles, California 90013

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 USA

SUBJECT **Second Half 2012 Groundwater Monitoring and Status Report**
 Former ExxonMobil Jalk Fee Property
 10607 Norwalk Boulevard
 Santa Fe Springs, California
 CRWQCB-LAR Case No. 0203 Site 1848000

Phone 805 644 4157
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www.cardnoeri.com

Mr. Changkuon:

At the request of ExxonMobil Environmental Services (EMES), on behalf of ExxonMobil Production Company (ExxonMobil), Cardno ERI is submitting the *Second Half 2012 Groundwater Monitoring and Status Report* for the above-referenced site. The format utilized for the report consolidates groundwater sampling (where applicable), Title 23, Subchapter 16 reporting and consultant progress updates for ExxonMobil into one summary report.

SITE DESCRIPTION

Former ExxonMobil Jalk Fee is located at 10607 Norwalk Boulevard, in the city of Santa Fe Springs, California. The site is 8.8 acres in size and has contained multiple industrial businesses since redevelopment into an industrial park in 2003. The surrounding areas consist mainly of industrial facilities. The Continental Heat Treating (CHT) facility, located contiguous to the south of the site, has an active environmental case with the California Regional Water Quality Control Board, Los Angeles Region (CRWQCB-LAR) for the release of HVOCS, including PCE and TCE, associated with the use of a degreaser at the facility, and is under directive from the CRWQCB-LAR to perform assessment on its property (ARCADIS, 2009).

Both the former Jalk Fee property and the CHT facility are located within the Omega Chemical Superfund area, which is more than four miles long, with documented regional HVOCS concentrations in groundwater relating to historical industrial activities in the cities of Santa Fe Springs and Whittier. The constituents of concern relating to the Omega Chemical Superfund Site are HVOCS, including PCE and TCE (CH2M HILL, Inc., 2010).

BACKGROUND

The site contained oil production facilities from the 1920s to the 1990s, and the oil field facilities were removed in the 1990s. The documented constituents of concern at the site related to oil field operations were hydrocarbons and metals. ExxonMobil has not identified records that show it used HVOCS at the Jalk Fee property (ARCADIS, 2009). As acknowledged in CRWQCB-LAR's letter dated June 23, 2010 to CHT, "the adjacent Jalk Fee property was used for oil production operations and no primary sources(s) of PCE contamination have been identified."

In 1997, Alton Geoscience completed site assessment activities to delineate the distribution of previously identified HVOCS- and hydrocarbon-containing soil in the vicinity of the southeastern property boundary and eastern central portion of the site. At the completion of the assessment work, a fate and transport model was completed, which indicated that the concentrations of the residual hydrocarbons left in place posed no risk to groundwater (Alton

Geoscience, 1997). In June 1998, Alton Geoscience completed remedial excavation activities of HVOC- and hydrocarbon-containing soil in three areas along the southern property boundary and eastern central portion of the site (Alton Geoscience, 1998). Based on the results of the soil remediation activities and the fate and transport model, the CRWQCB-LAR issued a closure letter for soil on March 1, 1999.

In November 2000, TRC Alton Geoscience (TRC) completed additional remedial excavation activities in seven areas throughout the former Jalk Fee property to remove hydrocarbon-containing soil as directed by the Santa Fe Springs Fire Department (SFSFD) to facilitate planned redevelopment of the site. Confirmation soil samples collected from the post-excavation areas indicated that cleanup goals set by the SFSFD had been achieved. An exposure assessment was also completed, which indicated that no additional mitigation was warranted to protect human health prior to initiating site development activities (TRC, 2000). The SFSFD and the CRWQCB-LAR issued no further action letters for soil in directives dated December 26, 2000 and March 5, 2001, respectively. The CRWQCB-LAR letter stated "we have determined that the chlorinated and petroleum hydrocarbons contaminated soils have been remediated to levels satisfactory to this Regional Board and protective of groundwater."

In 2003, the property was paved and redeveloped as an industrial business park.

Based upon the presence of HVOCs in groundwater, the CRWQCB-LAR required continued groundwater monitoring at the site, which has occurred for the past 11 years, utilizing wells MMW-04 and MMW-05. Well MMW-3 was destroyed in 2001 to facilitate redevelopment of the property.

In March and April 2011, groundwater monitoring wells MW6A/B/C through MW8A/B/C were installed at the site to delineate the vertical, crossgradient and upgradient extents of dissolved phase HVOCs.

GEOLOGY AND HYDROGEOLOGY

The site is located within the Santa Fe Springs Oil Field on the Santa Fe Springs Plain, which is part of the Montebello Forebay non-pressure area of the Central Basin [California Department of Water Resources (CDWR), 1961]. Groundwater is found throughout the region under unconfined conditions in the Recent Alluvium and in the underlying Exposition Aquifer. Within the Santa Fe Springs Oil Field, the upper 100 feet of sediments consist predominantly of permeable sands, although the upper 15 feet of sediments have a higher silt and clay content and lower permeability. Assessment activities indicate that the soil beneath the site consists of interbedded layers of silt, sandy silt, sand and gravel from the surface to at least 160 feet bgs. Sandy clay or clay has been encountered from 160 to 190 feet bgs, the maximum depth explored. The clay layer is interpreted to be the aquiclude which separates the Exposition Aquifer from the deeper Gage Aquifer.

The first regional groundwater-bearing zone in the site vicinity is the Exposition Aquifer, which is encountered at 100 feet bgs. This aquifer ranges in thickness from 75 to 100 feet, and is underlain by a 50-foot thick aquiclude, beneath which is the Gage Aquifer (CDWR, 1961).

February 14, 2013
Cardno ERI 08115504.2H12



Please call me at 805 644 4157, extension 181805, if you have any questions.

Sincerely,

A handwritten signature in black ink, appearing to read 'JAMES ANDERSON'.

for James Anderson
Senior Engineer
for Cardno ERI
Direct Line 805 644 4157, extension 181805
Email: james.anderson@cardno.com

cc: Mr. Aaron Thom, EMES
Mr. Thomas Clark, Coast Aluminum & Architectural, Inc.
Mr. William Macnider, CSI Electrical Contractors
Ms. Michelle F. Smith
Mr. John Maple

Enclosures:

References
Acronym List

Second Half 2012 Groundwater Monitoring and Status Report dated February 14, 2013

REFERENCES

- Alton Geoscience. October 10, 1997. *Site Assessment Report and Remedial Action Plan*.
- ARCADIS. October 27, 2009. *2009 Annual Groundwater Monitoring Report and Closure Request*.
- California Department of Water Resources (CDWR). 1961. *Groundwater Geology of the Coastal Plain of Los Angeles County, Idealized Geologic Sections M-M' and N-N*.
- CH2M HILL, Inc. August 2010. *Feasibility Study Report, Omega Chemical Corporation Superfund Site, Operable Unit 2*.
- TRC. November 28, 2000. *Site Closure Report and Risk Assessment*.

CARDNO ERI LIST OF ACRONYMS

SCAQMD – South Coast Air Quality Management District	SVE – soil vapor extraction
bgs – below ground surface	TAME – tertiary amyl methyl ether
BTEX – benzene, toluene, ethylbenzene and total xylenes	TBA – tertiary butyl alcohol
LUFT – California leaking underground fuel tank	TCE – trichloroethene
cis-1,2-DCE – cis-1,2-dichloroethene	TEMP - temperature
CL – closed well	TPHd – total petroleum hydrocarbons as diesel
COND - conductivity	TPHg – total petroleum hydrocarbons as gasoline
CRWQCB-CCR –	TRPH – total recoverable petroleum hydrocarbons
California Regional Water Quality Control Board, Central Coast Region	$\mu\text{g}/\text{L}$ – micrograms per liter
CRWQCB-LAR –	UST – underground storage tank
California Regional Water Quality Control Board, Los Angeles Region	
DIA - diameter	VC – vinyl chloride
DIPE – di-isopropyl ether	VES – vapor extraction system
DO – dissolved oxygen	VOC – volatile organic compound
EDB – ethylene dibromide or 1,2-dibromoethane	VOL – volume
EDC – ethylene dichloride or 1,2-dichloroethane	$^{\circ}\text{C}$ – degrees Celsius or centigrade
ELEV - elevation	
EPA – Environmental Protection Agency	
ETBE – ethyl tertiary butyl ether	
FI – field instrument	
FPD –Santa Barbara County Fire Department, Fire Prevention Division	
ft - feet	
GW - groundwater	
GWPTS – groundwater pump and treat system	
J - estimated value between MDL and PQL	
MDL – method detection limit	
mg/l – milligrams per liter	
DPE – dual-phase extraction	
msl – mean sea level	
MTBE – methyl tertiary butyl ether	
NA – not analyzed	
NAPL – non-aqueous phase liquid	
ND – not detected	
NM – not measured	
NPDES – National Pollutant Discharge Elimination System	
NS – not sampled	
NT – not tested	
N/A – not applicable	
O&M – operations and maintenance	
ppbv – parts per billion by volume	
PCE – tetrachloroethylene or perchloroethylene	
P.G. – professional geologist	
pH –hydrogen potential	
ppmv – parts per million by volume	
PQL – practical quantitation limit	
PRG - purge	
psig – pounds per square inch gauge	
scfh – standard cubic feet per hour	
scfm – standard cubic feet per minute	

GROUNDWATER MONITORING AND STATUS REPORT SUMMARY SHEET
SECOND HALF 2012
Former ExxonMobil Jalk Fee Property, 10607 Norwalk Boulevard, Santa Fe Springs, California
CARDNO ERI 1155

SITE INFORMATION:	
Responsible Party / Contact:	ExxonMobil Environmental Services / Aaron M. Thom: 281 654 0326
Responsible Party Address:	13401 North Freeway, Houston, Texas 77060
Station / Site ID:	Jalk Fee
Current Site Use:	Multi-use Commercial property
Global ID:	SL184801463
Lead Regulatory Agency/Case#/Site#/Case Worker:	CRWQCB-LAR / 0203 / 1848000 / Mr. Luis Changkuon
Date of Most Recent Regulatory Letter:	December 10, 2012
Primary Consultant / Project Manager:	Cardno ERI / Mr. James Anderson 805 644 4157, ext. 181805
Well Monitoring Contractor:	Cardno ERI
Site Monitoring Frequency:	Semi-annual
Well(s) and/or Subsurface Water Within 2,000 ft.:	None
Number of Groundwater Wells On Site:	14
Number of Groundwater Wells Off Site:	3
Phase of Vadose Investigation:	Assessment
Phase of Groundwater Investigation:	Assessment
Nature of Impact:	Chlorinated hydrocarbons

SITE HYDROLOGY

Number of Water Zones:	3
Depth to Groundwater Range (ft-TOC)	86.19 - 89.08
Potentiometric Surface Elevation Range (ft-MSL):	46.46 - 50.05
Flow Direction/Hydraulic Gradient (ft/ft):	Southwest / 0.005

FIELD ACTIVITY (CURRENT REPORTING PERIOD):		Wells with NAPL:	
		Well	Feet
Groundwater Monitoring Date:	11/16-17/12	None	N/A
Groundwater Wells Gauged:	14		
Groundwater Wells Sampled:	14		
Sampling Method:	Purge		
Gallons of Groundwater Purged:	925		
Treatment Method / Disposal Facility:	Recycle/Crosby & Overton		
Analysis:	full scan VOCs by EPA 8260B		

GROUNDWATER CONDITIONS SHALLOW WELLS:

No. of wells with Detectable PCE:	6	PCE Range (ug/l):	73.0 - 259
No. of wells with Detectable TCE:	6	TCE Range (ug/l):	52.5 - 148
No. of wells with Detectable 1,1-DCA:	6	1,1-DCA Range (ug/l):	12.8 - 31.3
No. of wells with Detectable 1,1-DCE:	6	1,1-DCE Range (ug/l):	74.3 - 166

GROUNDWATER CONDITIONS INTERMEDIATE WELLS:

No. of wells with Detectable PCE:	4	PCE Range (ug/l):	106 - 1,480
No. of wells with Detectable TCE:	4	TCE Range (ug/l):	44.9 - 255
No. of wells with Detectable 1,1-DCA:	4	1,1-DCA Range (ug/l):	19.9 - 24.9
No. of wells with Detectable 1,1-DCE:	4	1,1-DCE Range (ug/l):	75.0 - 168

GROUNDWATER CONDITIONS DEEP WELLS:

No. of wells with Detectable PCE:	4	PCE Range (ug/l):	19.0 - 218
No. of wells with Detectable TCE:	4	TCE Range (ug/l):	6.52 - 86.3
No. of wells with Detectable 1,1-DCA:	4	1,1-DCA Range (ug/l):	1.38 - 11.5
No. of wells with Detectable 1,1-DCE:	4	1,1-DCE Range (ug/l):	6.90 - 109

GROUNDWATER MONITORING AND STATUS REPORT SUMMARY SHEET
SECOND HALF 2012

Former ExxonMobil Jalk Fee Property, 10607 Norwalk Boulevard, Santa Fe Springs, California
CARDNO ERI 1155

ACTIVITIES PERFORMED THIS REPORTING PERIOD:

- Conducted the second half 2012 groundwater monitoring and sampling event. The sampling event was coordinated with the Continental Heat Treating facility.
- Submitted a *Work Plan Addendum* dated August 24, 2012, to the CRWQCB-LAR.
- Completed the assessment field work as described in Cardno ERI's *Work Plan for Additional Site Assessment Activities*, as approved by the CRWQCB-LAR.

TREND ANALYSIS / CONCLUSIONS:

- The PCE concentration in deep-screened well MW6C remained stable as compared to the previous sampling event.
- TCE, 1,1-DCA, 1,1-DCE concentrations in site wells remained stable as compared to the previous sampling event.
- The maximum PCE concentrations have historically been measured in intermediate and deep-screened wells MW6B and MW6C, respectively.

ACTIVITIES TO BE PERFORMED NEXT REPORTING PERIOD:

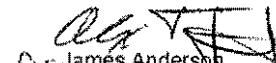
- Conduct the first half 2013 groundwater monitoring and sampling event.
- Submit a site assessment report to the CRWQCB-LAR summarizing the results of the assessment activities.

PROPOSED FUTURE WORK TO PROGRESS SITE TOWARD CLOSURE:

- Continue coordinated semi-annual groundwater sampling with the Continental Heat Treating facility to establish a trend in dissolved phase chlorinated hydrocarbon concentrations.
- Evaluate the delineation of the subsurface residual chlorinated and crude oil hydrocarbons based upon the results of the completed assessment and ongoing groundwater monitoring program

For any questions, please call Mr. James Anderson with Cardno ERI at 805 644 4157, extension 181805.

Respectfully submitted,


Attn: James Anderson
Senior Engineer


Andy Nelson
Project Geologist
P.G. 8360

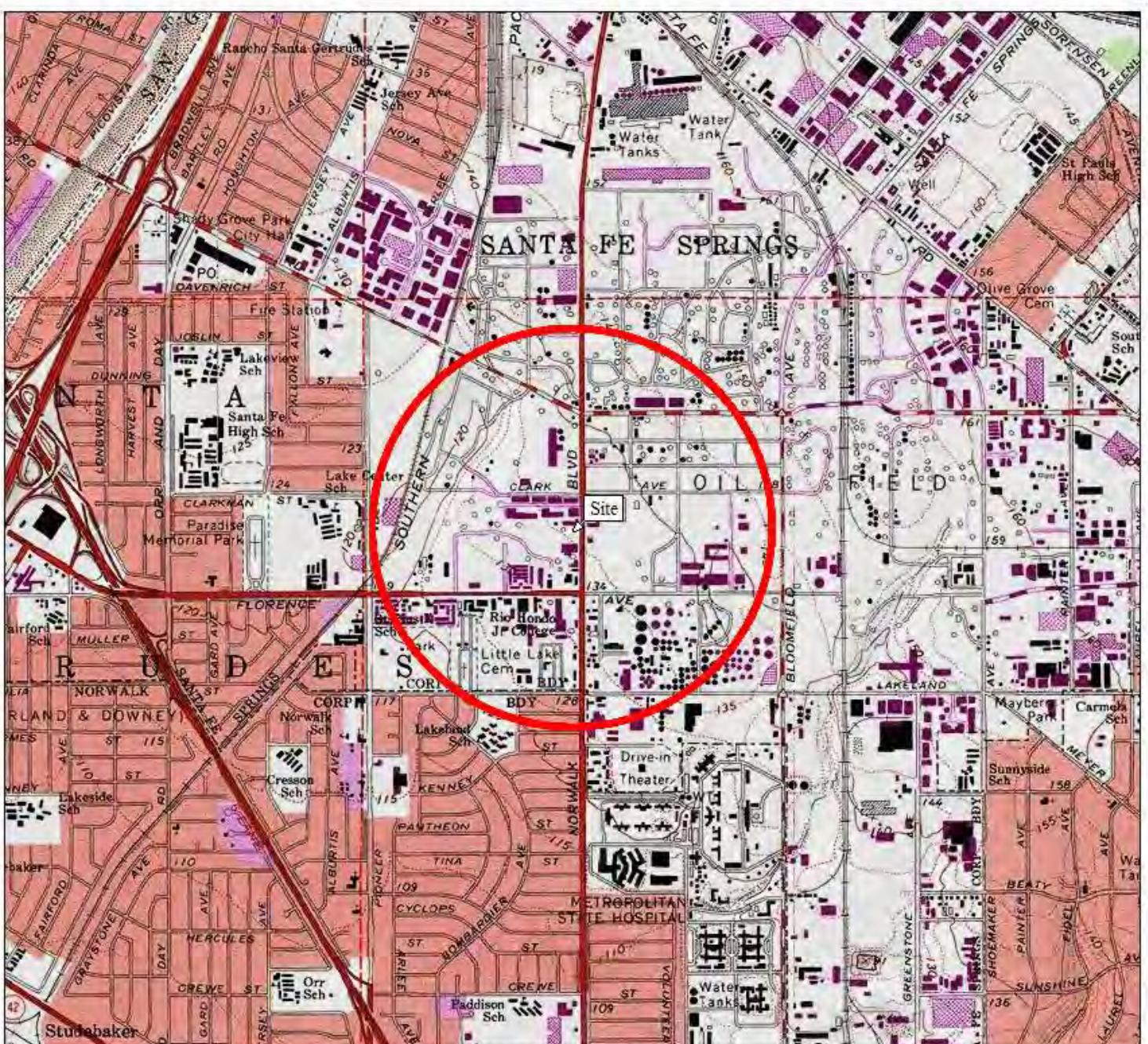


ATTACHED:

- Site Location Map (Plate 1)
- Generalized Site Plan (Plate 2)
- Groundwater Elevation Map – 11/16-17/12 (Plate 3)
- PCE Groundwater Concentration Map - Shallow Wells – 11/16-17/12 (Plate 4)
- TCE Groundwater Concentration Map - Shallow Wells – 11/16-17/12 (Plate 5)
- 1,1-DCA Groundwater Concentration Map - Shallow Wells – 11/16-17/12 (Plate 6)
- 1,1-DCE Groundwater Concentration Map - Shallow Wells – 11/16-17/12 (Plate 7)
- PCE Groundwater Concentration Map - Intermediate Wells – 11/16-17/12 (Plate 8)
- TCE Groundwater Concentration Map - Intermediate Wells – 11/16-17/12 (Plate 9)
- 1,1-DCA Groundwater Concentration Map - Intermediate Wells – 11/16-17/12 (Plate 10)
- 1,1-DCE Groundwater Concentration Map - Intermediate Wells – 11/16-17/12 (Plate 11)
- PCE Groundwater Concentration Map - Deep Zone – 11/16-17/12 (Plate 12)
- TCE Groundwater Concentration Map - Deep Wells – 11/16-17/12 (Plate 13)
- 1,1-DCA Groundwater Concentration Map - Deep Wells – 11/16-17/12 (Plate 14)

GROUNDWATER MONITORING AND STATUS REPORT SUMMARY SHEET
SECOND HALF 2012
Former ExxonMobil Jalk Fee Property, 10607 Norwalk Boulevard, Santa Fe Springs, California
CARDNO ERI 1155

- 1,1-DCE Groundwater Concentration Map - Deep Wells – 11/16-17/12 (Plate 15)
- Water Level Measurements and Groundwater Analyses (Table 1)
- Cumulative Water Level Measurements and Groundwater Analyses (Table 2)
- Summary of BTEX and Fuel Oxygenates Groundwater Monitoring Results (Table 3)
- Cumulative BTEX and Fuel Oxygenates Groundwater Monitoring Results (Table 4)
- Laboratory Reports
- Groundwater Sampling Field Log
- Bill of Lading
- Groundwater Monitoring and Sampling Field Protocol



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FN 1155TOPO

Map Name: Whittier, CA
Version: 1981

EXPLANATION



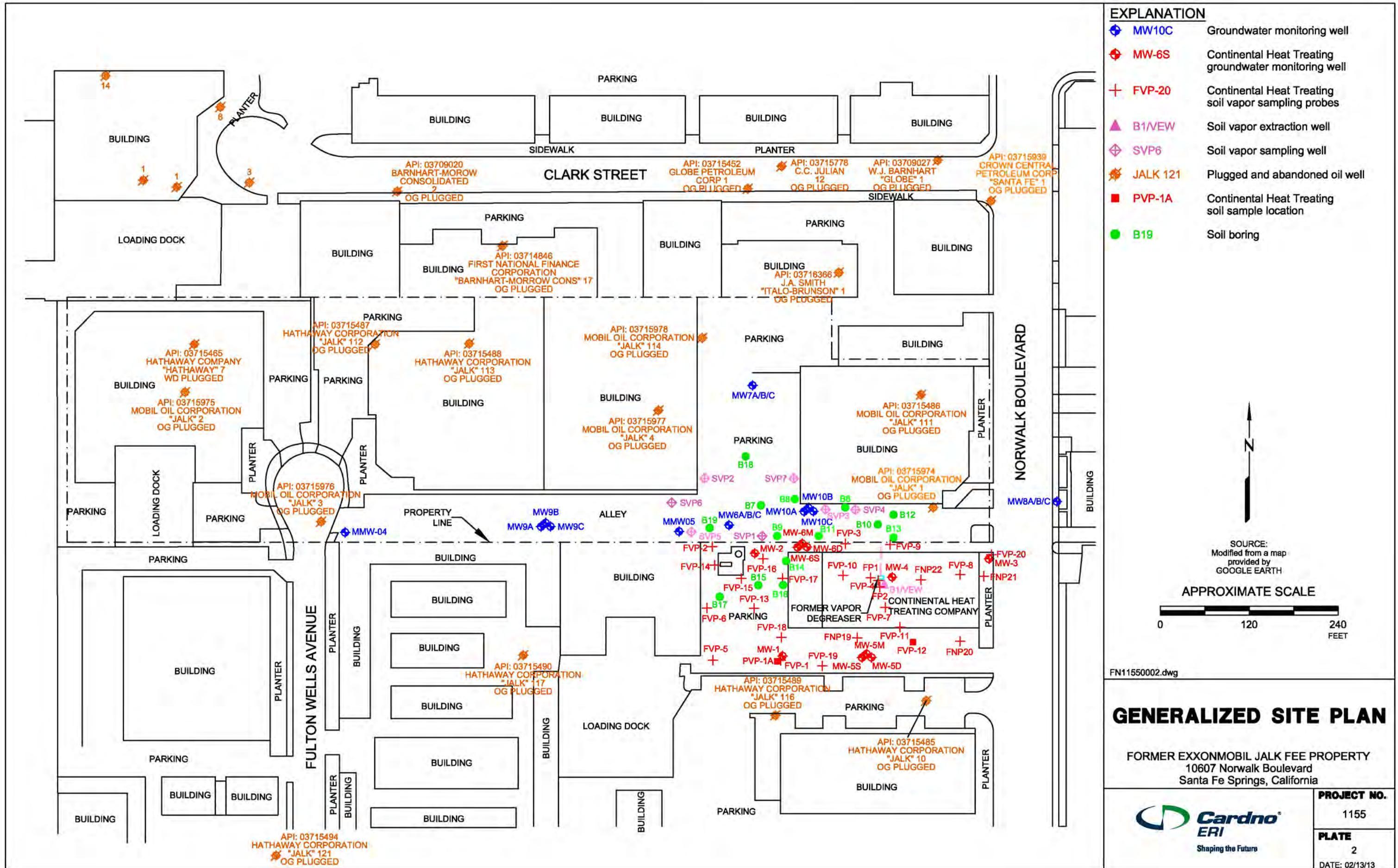
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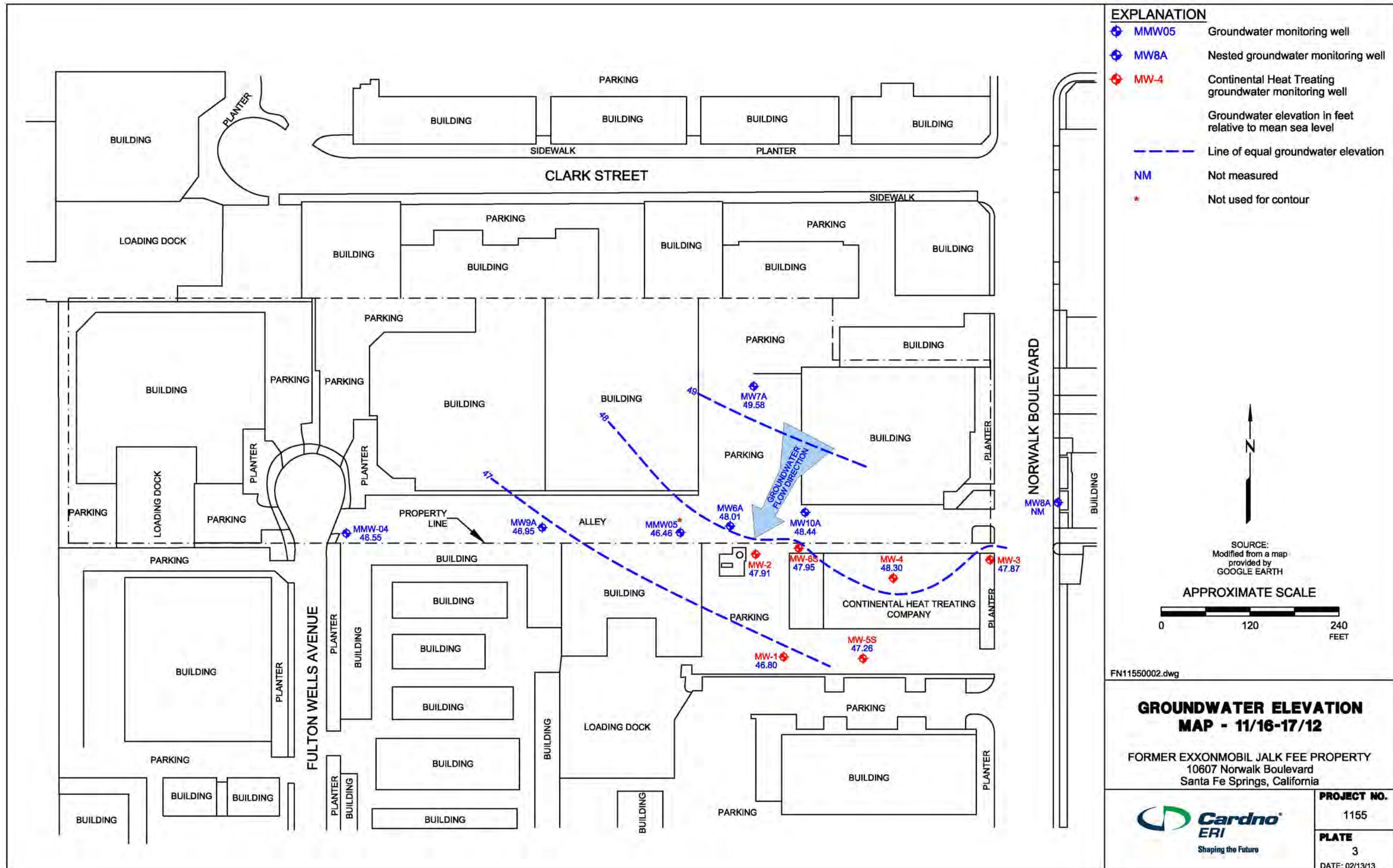
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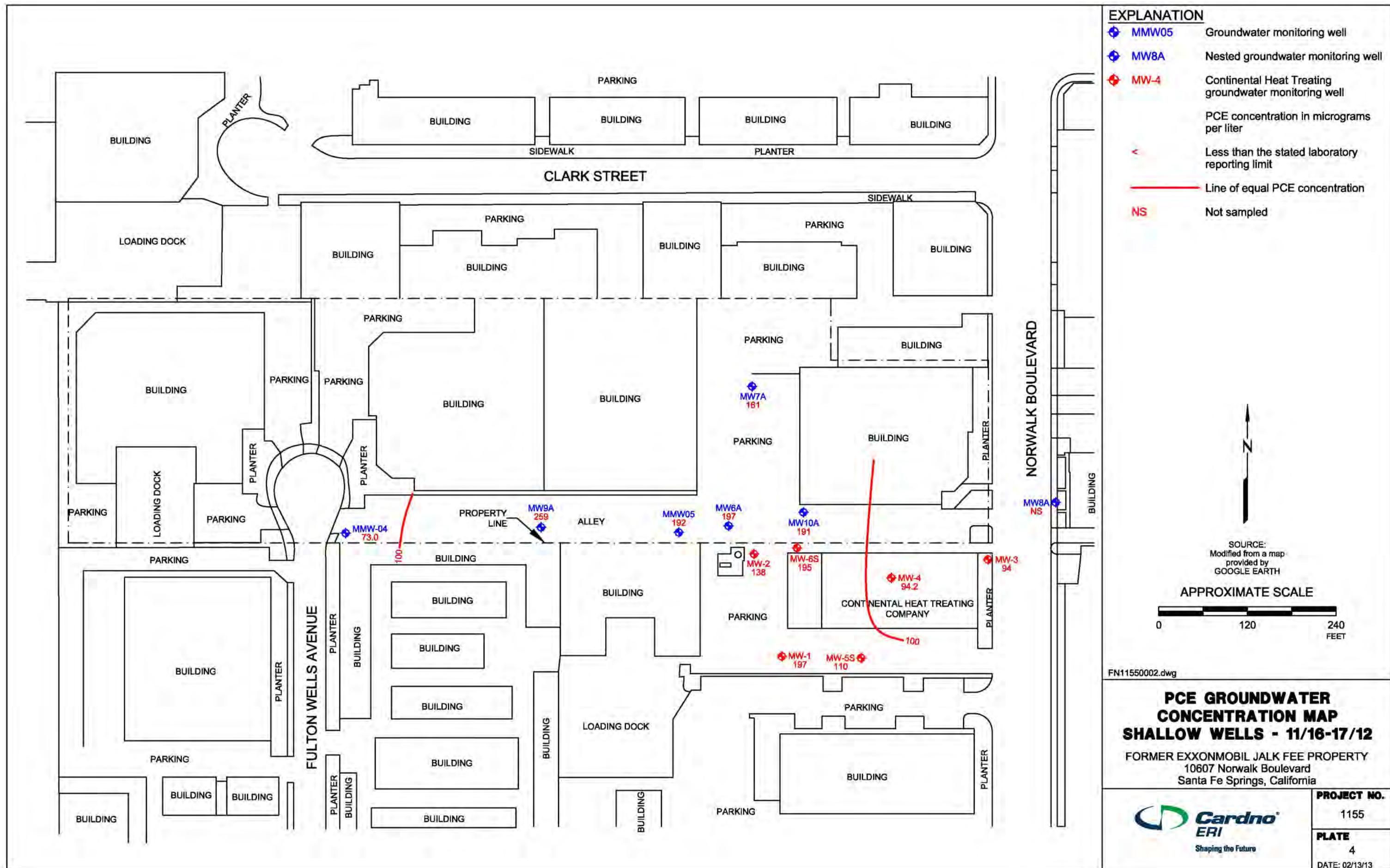


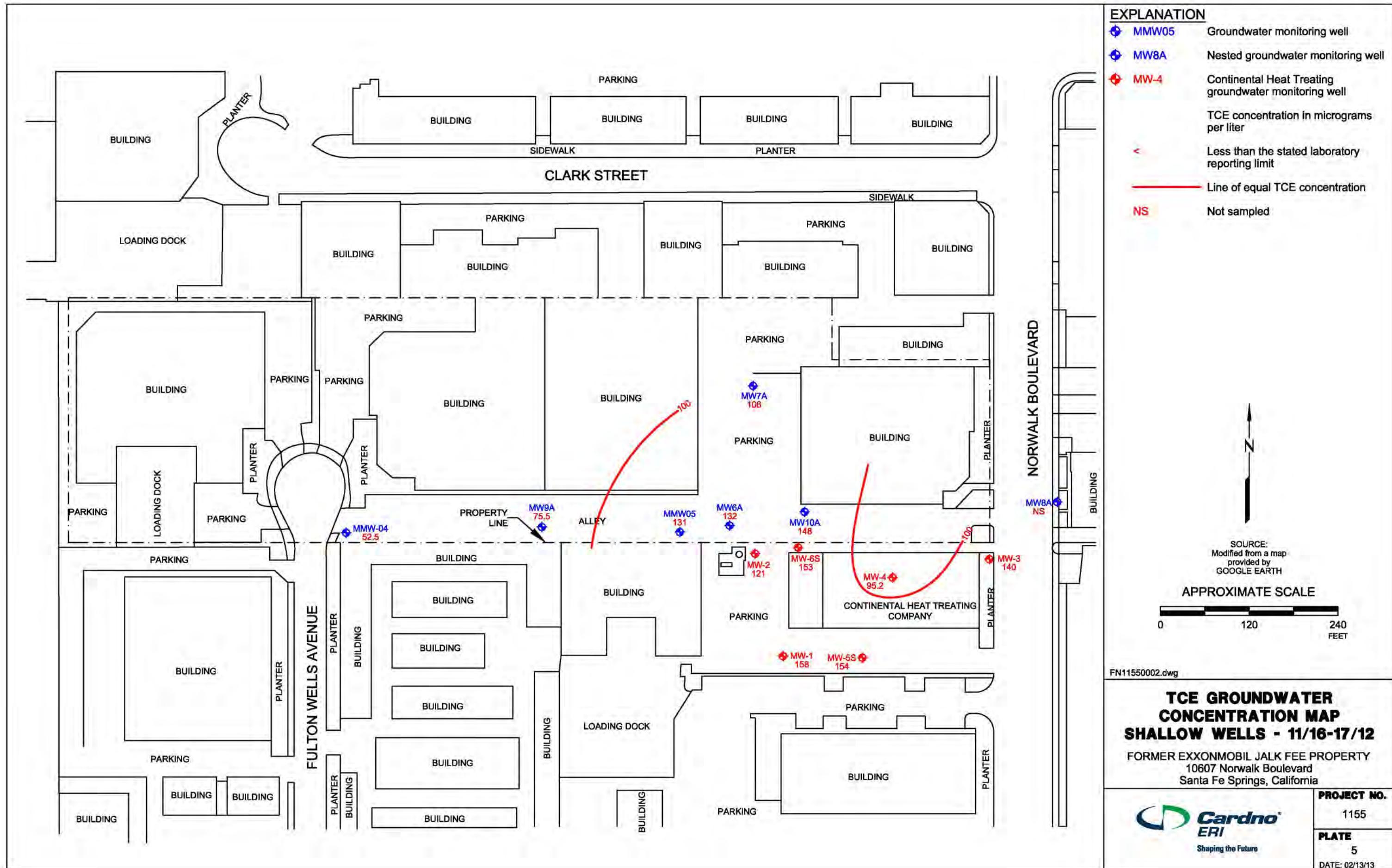
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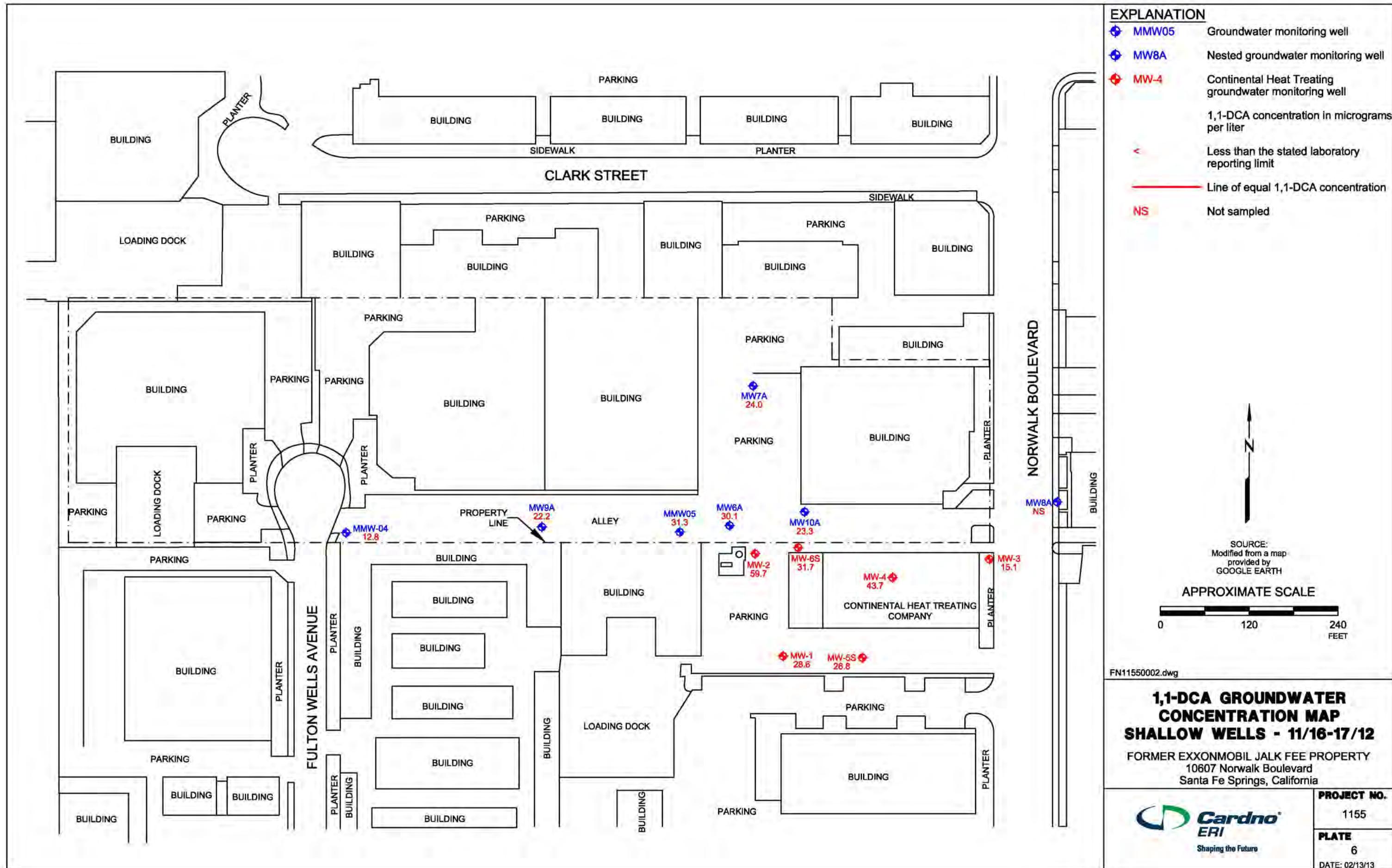
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National Geographic's TOPO!

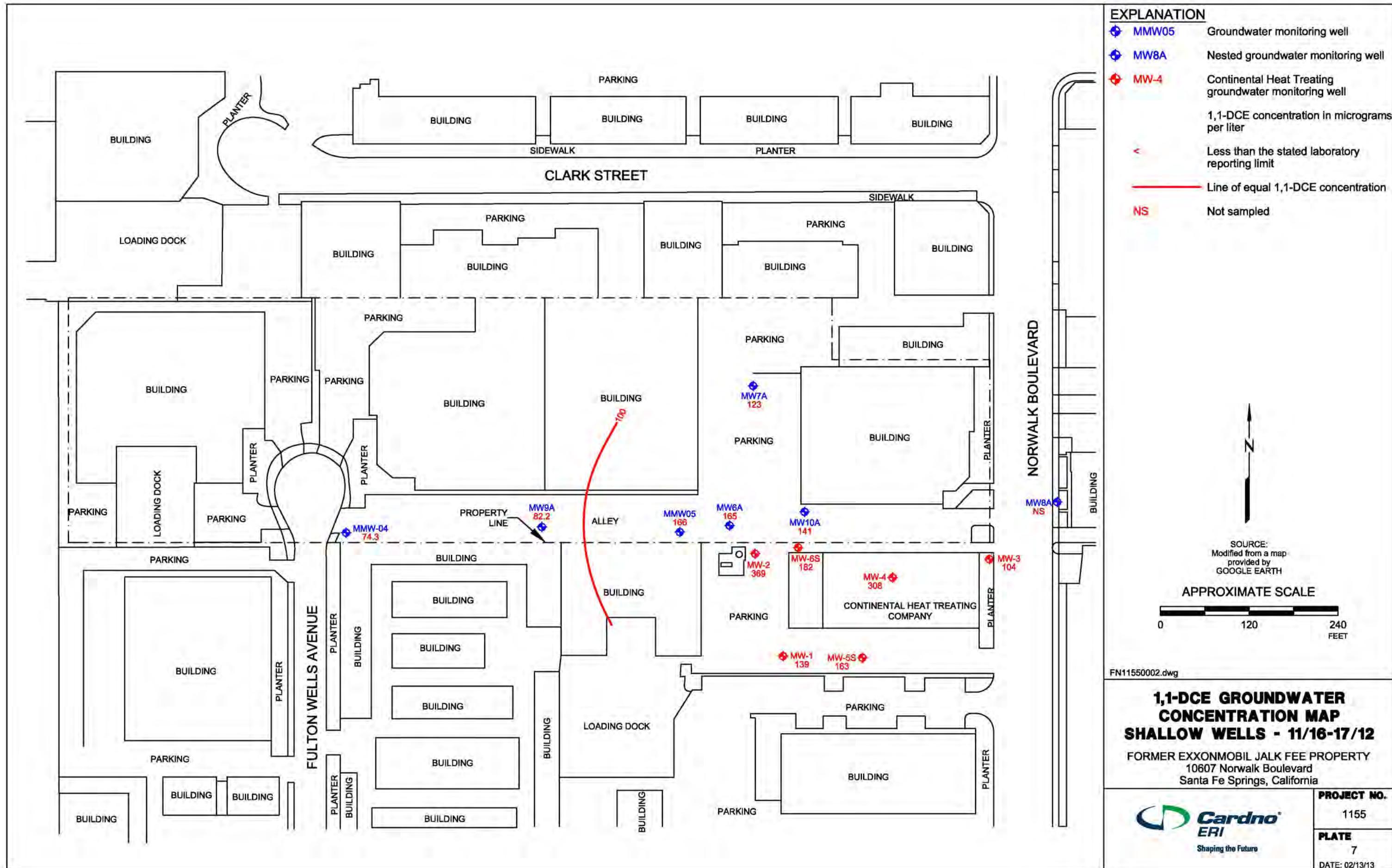


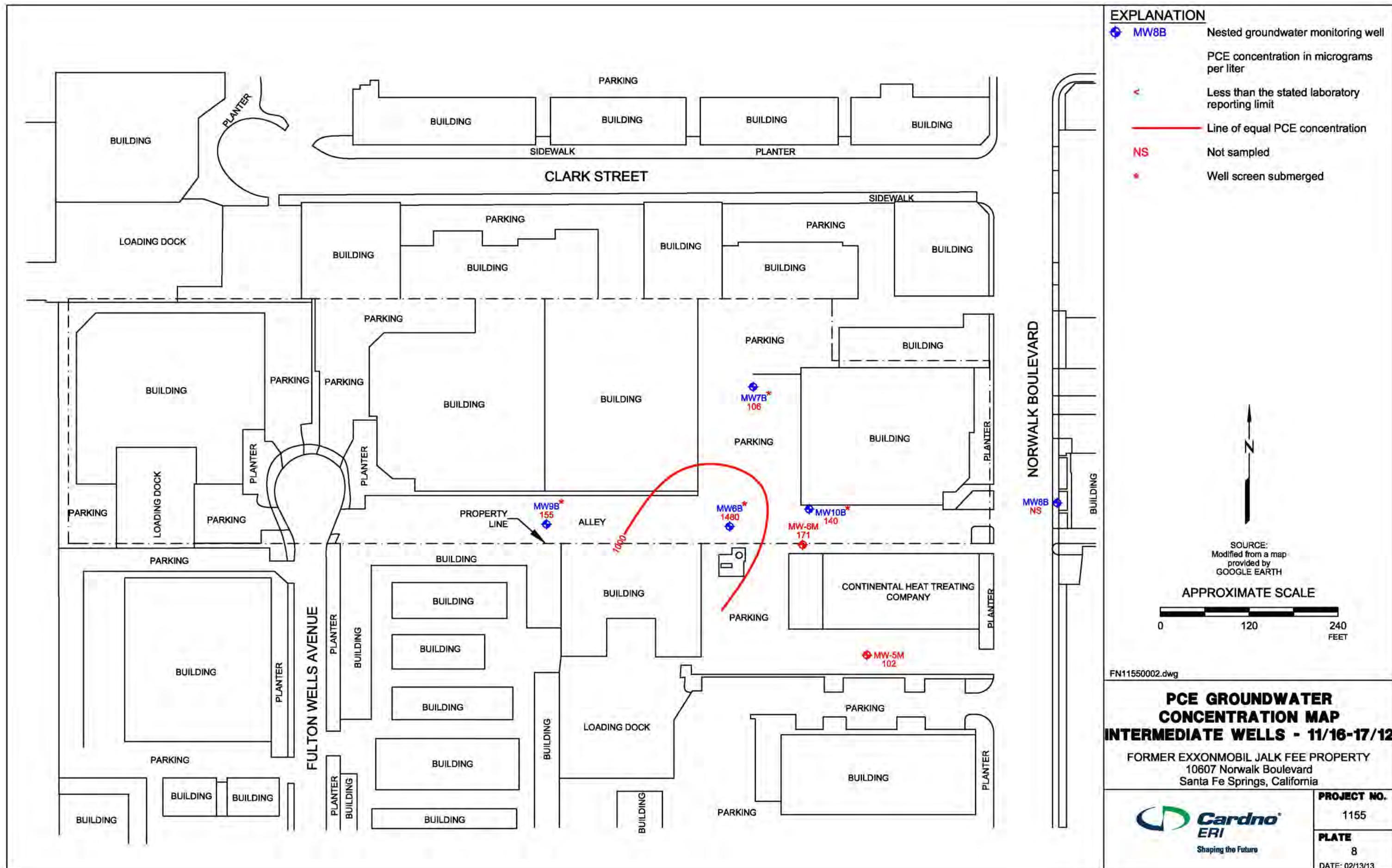


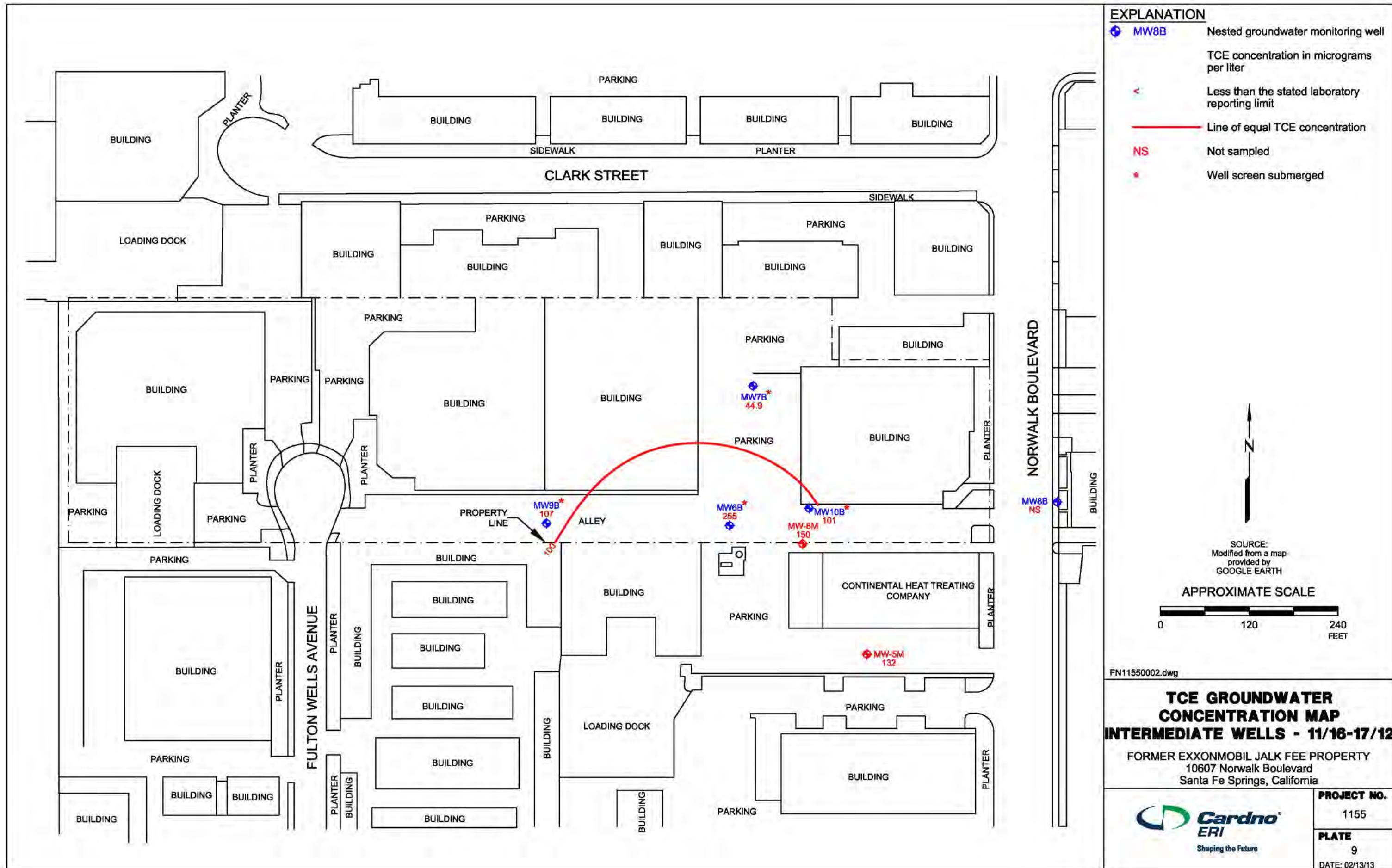


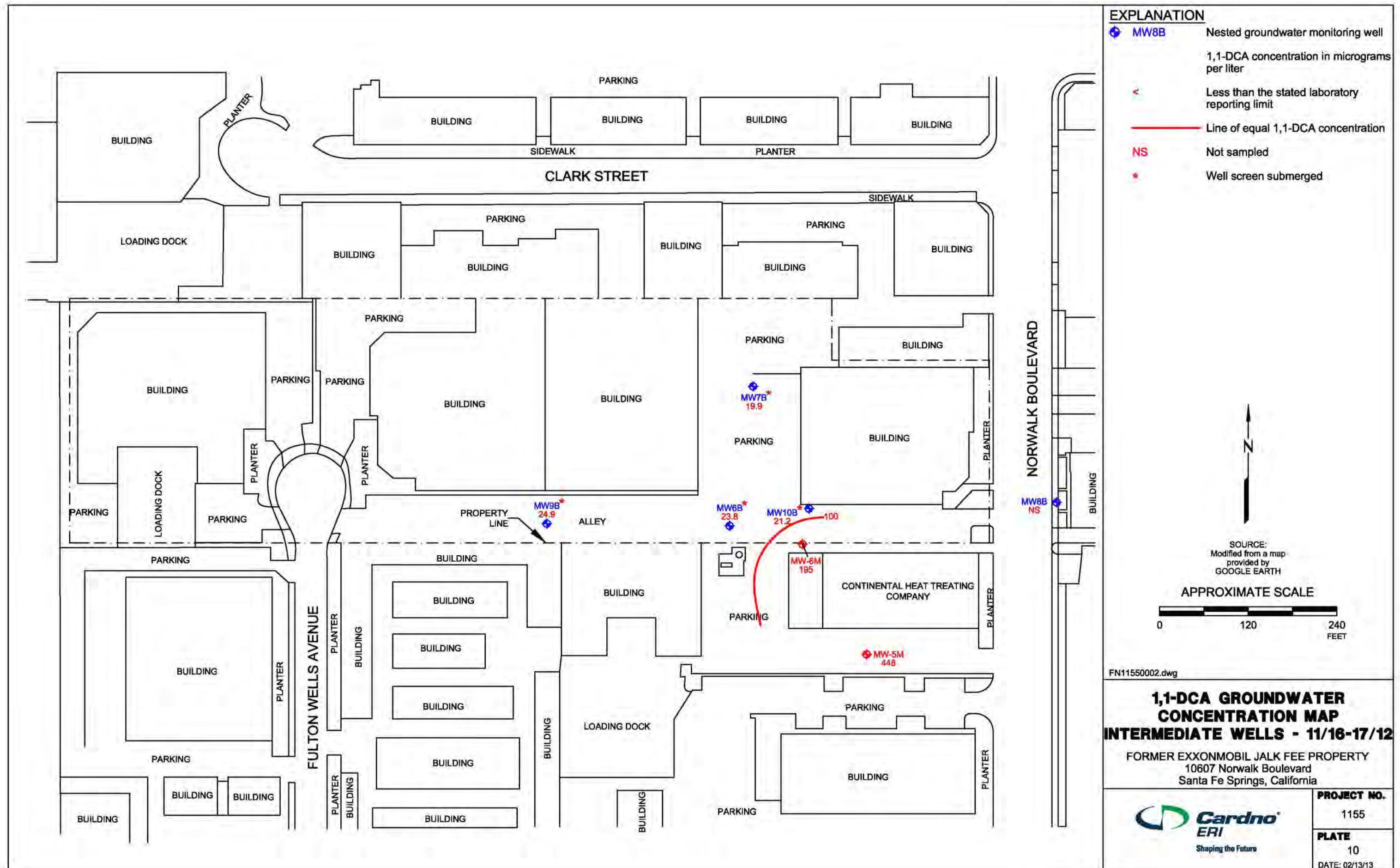


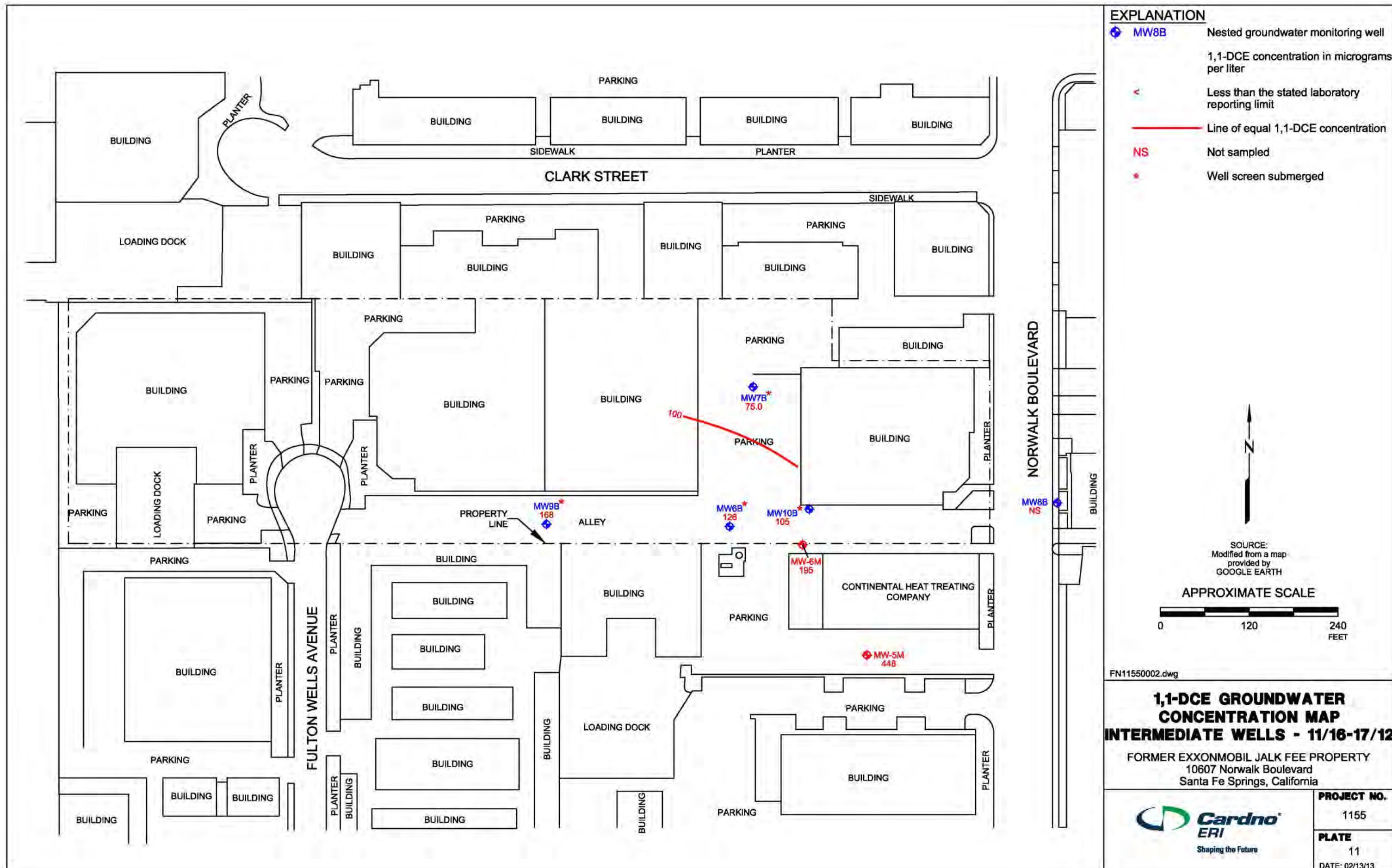


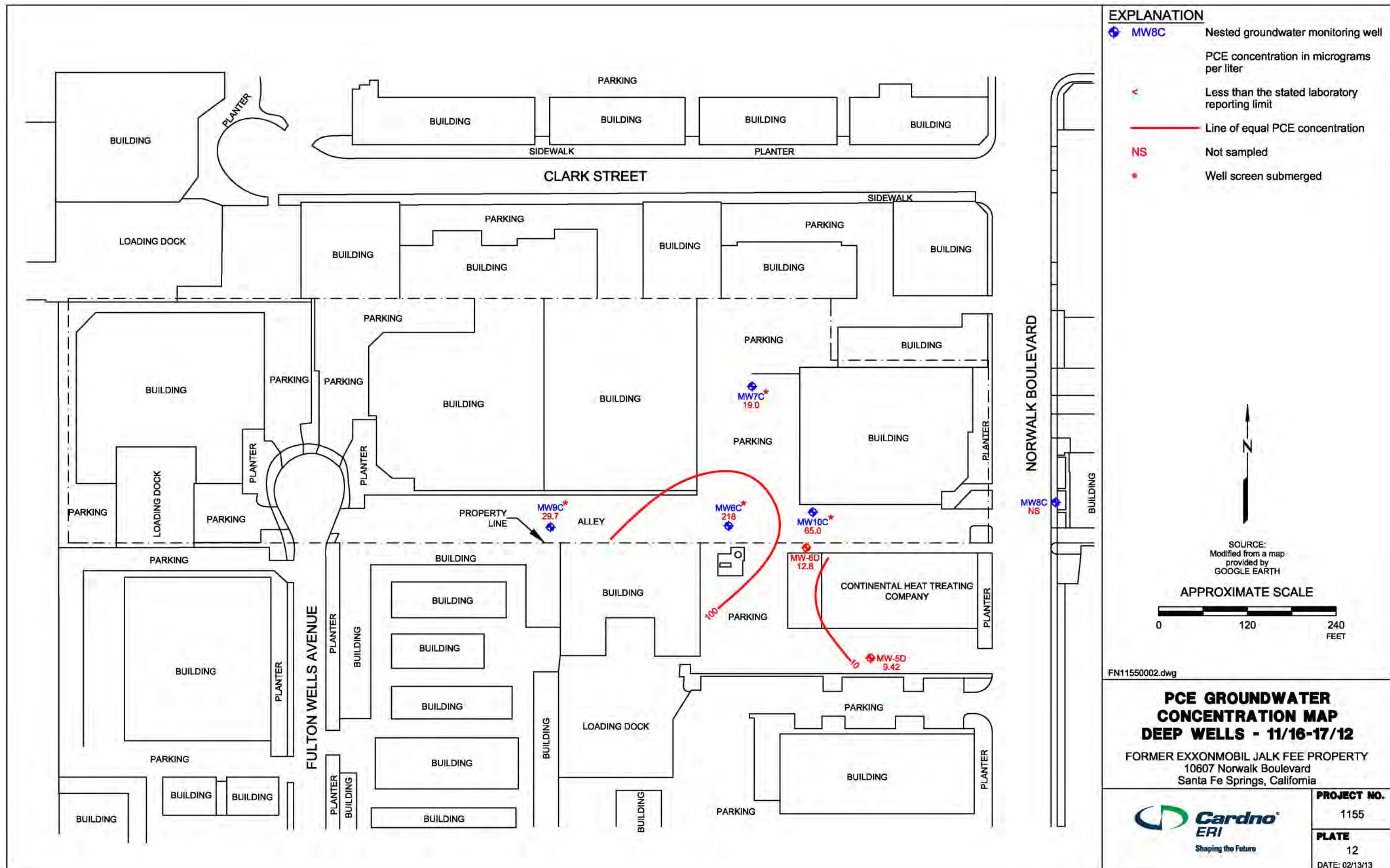


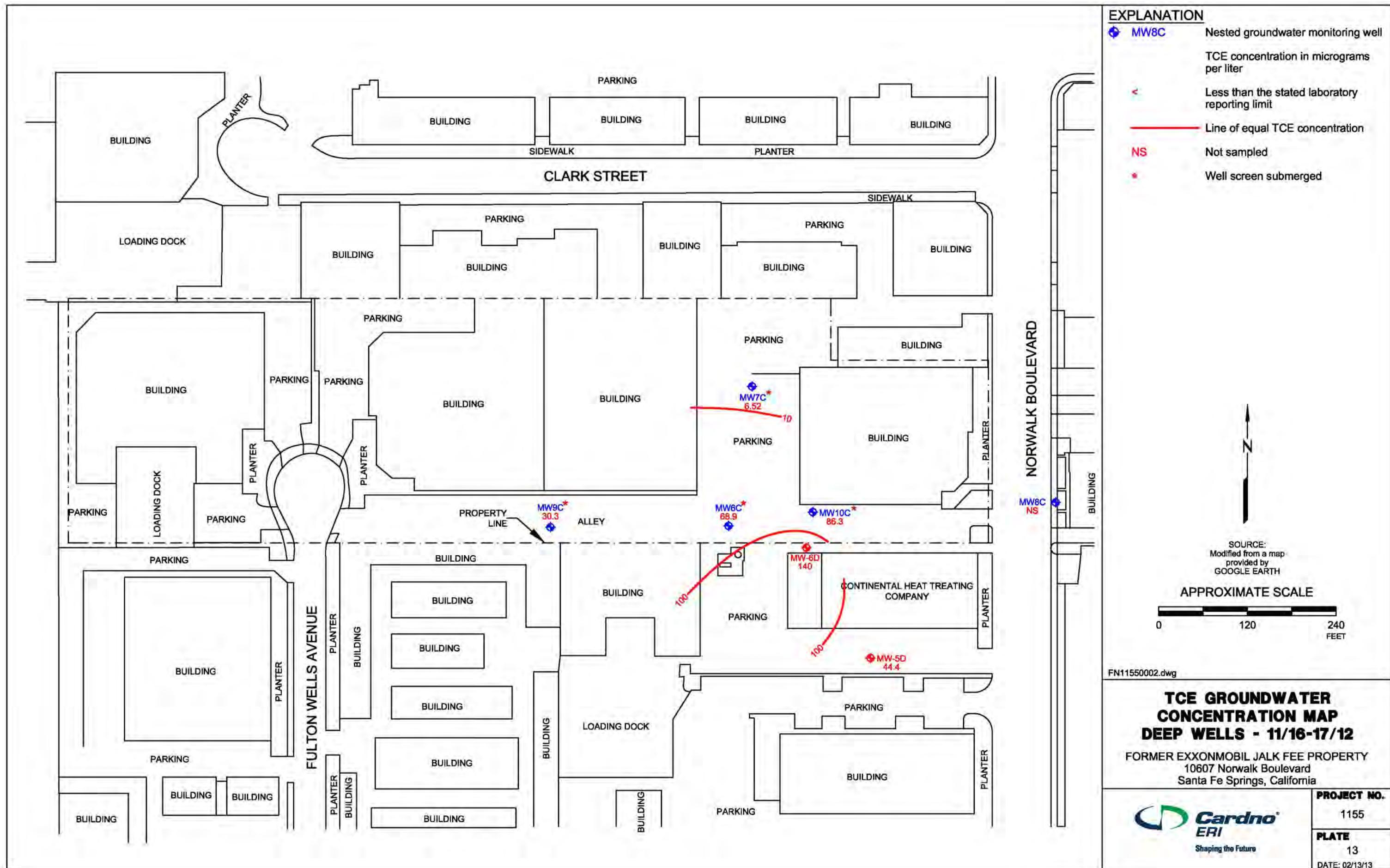


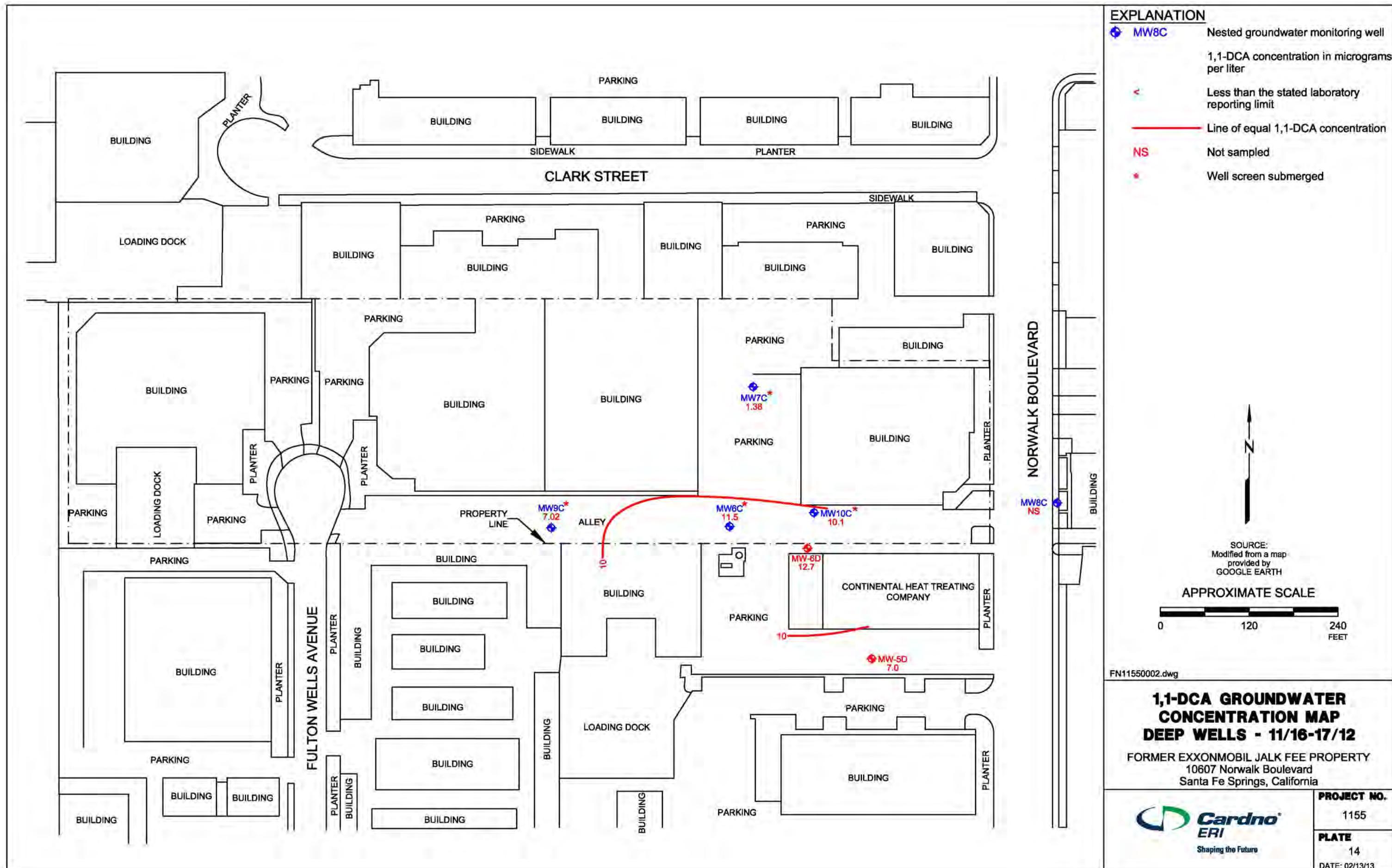












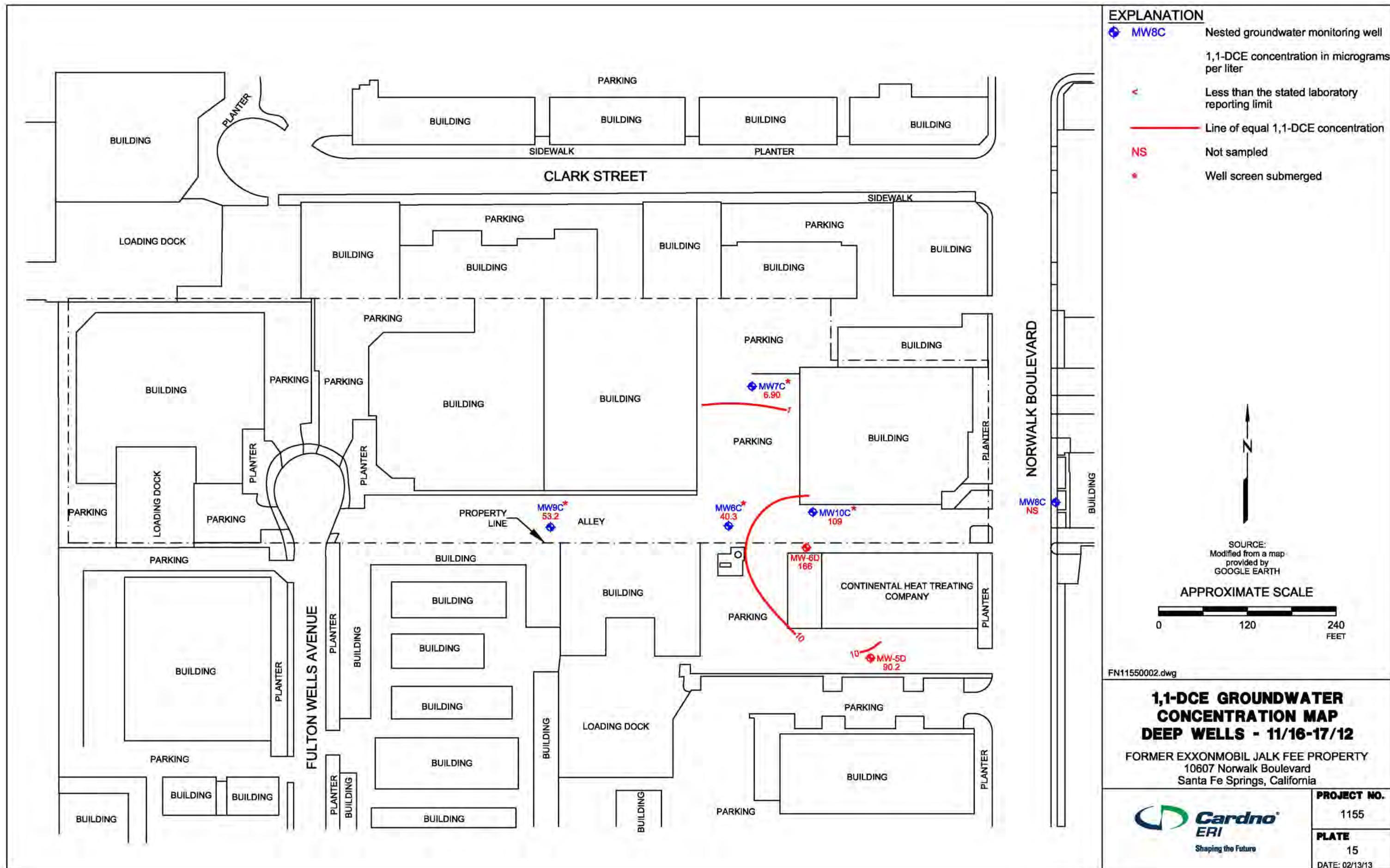


TABLE 1
WATER LEVEL MEASUREMENTS AND GROUNDWATER ANALYSES
FORMER EXXONMOBIL JALK FEE PROPERTY
10607 NORWALK BOULEVARD
SANTA FE SPRINGS, CALIFORNIA
CARDNO ERI 1155

DATE	Well Elev (feet-MSL)	GW Depth (feet-TOC)	GW Elev (feet-MSL)	PCE ($\mu\text{g/l}$)	TCE ($\mu\text{g/l}$)	DCE ($\mu\text{g/l}$)	Vinyl Chloride ($\mu\text{g/l}$)	1,1,1-Trichloroethane ($\mu\text{g/l}$)	1,1,2-Trichloro- 1,2,2 Trifluoroethane ($\mu\text{g/l}$)	1,1-Dichloroethane ($\mu\text{g/l}$)
Field Point	MMW-04									
11/17/2012	131.40	86.59	44.81	73.0	52.5	27.8	<0.500	0.267 J	9.11	12.8
Field Point	MMW-05									
11/16/2012	133.38	89.08	44.30	192	131	58.0	<0.500	0.934	38.6	31.3
Field Point	MW6A									
11/16/2012	136.53	88.52	48.01	197	132	60.2	<0.500	0.842	30.8	30.1
Field Point	MW6B									
11/16/2012	136.54	87.88	48.66	1480	255	82.0	1.97	<0.500	1.60	23.8
Field Point	MW6C									
11/16/2012	136.53	87.26	49.27	192	66.2	56.3	5.23	<0.500	<1.00	11.4
11/16/2012 D	136.53	87.26	49.27	218	68.9	56.6	5.47	<0.500	<1.00	11.5
Field Point	MW7A									
11/16/2012	138.22	88.64	49.58	161	106	47.0	<0.500	0.632	26.4	24.0
Field Point	MW7B									
11/16/2012	138.14	88.09	50.05	106	44.9	94.9	0.697	0.209 J	3.47	19.9
Field Point	MW7C									
11/16/2012	138.22	88.18	50.04	19.0	6.52	5.36	<0.500	<0.500	<1.00	1.38
Field Point	MW8A									
11/16/2012	137.66		137.66					NO PERMITTED ACCESS TO WELL		
Field Point	MW8B									
11/16/2012	137.70		137.7					NO PERMITTED ACCESS TO WELL		
Field Point	MW8C									
11/16/2012	137.73		137.73					NO PERMITTED ACCESS TO WELL		
Field Point	MW9A									
11/17/2012	135.14	88.19	46.95	259	75.5	42.1	<0.500	0.707	12.8	22.2
Field Point	MW9B									
11/17/2012	135.18	86.19	48.99	155	107	57.7	<0.500	<0.500	2.97	24.9

TABLE 1
WATER LEVEL MEASUREMENTS AND GROUNDWATER ANALYSES
FORMER EXXONMOBIL JALK FEE PROPERTY
10607 NORWALK BOULEVARD
SANTA FE SPRINGS, CALIFORNIA
CARDNO ERI 1155

DATE	Well Elev (feet-MSL)	GW Depth (feet-TOC)	GW Elev (feet-MSL)	PCE ($\mu\text{g/l}$)	TCE ($\mu\text{g/l}$)	DCE ($\mu\text{g/l}$)	Vinyl Chloride ($\mu\text{g/l}$)	1,1,1- Trichloroethane ($\mu\text{g/l}$)	1,1,2-Trichloro- 1,2,2 Trifluoroethane ($\mu\text{g/l}$)	1,1- Dichloroethane ($\mu\text{g/l}$)
Field Point MW9C Well Screen Interval (feet): 175-185										
11/17/2012	135.38	87.35	48.03	29.7	30.3	21.3	<0.500	<0.500	<1.00	7.02
Field Point MW10A Well Screen Interval (feet): 80-110										
11/16/2012	137.43	88.99	48.44	191	148	83.7	1.49	0.688	42.8	23.3
Field Point MW10B Well Screen Interval (feet): 140-150										
11/16/2012	137.46	88.01	49.45	140	101	53.2	<0.500	0.197 J	18.0	21.2
Field Point MW10C Well Screen Interval (feet): 165-175										
11/16/2012	137.45	87.99	49.46	65.0	86.3	46.1	<0.500	<0.500	<1.00	10.1
Field Point TRIP BLANK Well Screen Interval (feet):										
11/16/2012				<0.500	<0.500	<0.500	<0.500	<0.500	<1.00	<0.500
11/17/2012				<0.500	<0.500	<0.500	<0.500	<0.500	<1.00	<0.500

TABLE 1
WATER LEVEL MEASUREMENTS AND GROUNDWATER ANALYSES
FORMER EXXONMOBIL JALK FEE PROPERTY
10607 NORWALK BOULEVARD
SANTA FE SPRINGS, CALIFORNIA
CARDNO ERI 1155

DATE	1,1- Dichloroethene ($\mu\text{g/l}$)	1,2,3- Trichlorobenzene ($\mu\text{g/l}$)	1,2,4- Trimethylbenzene ($\mu\text{g/l}$)	1,2- Dichloropropane ($\mu\text{g/l}$)	1,4- Dichlorobenzene ($\mu\text{g/l}$)	Acetone ($\mu\text{g/l}$)	Chloroform ($\mu\text{g/l}$)	Trichlorofluoro- methane ($\mu\text{g/l}$)
Field Point MMW-04		Well Screen Interval (feet): 60-105						
11/17/2012	74.3	<0.500	0.244 J	1.95	<0.500	<50.0	1.81	4.26
Field Point MMW-05		Well Screen Interval (feet): 61-106						
11/16/2012	166	<0.500	<0.500	0.392 J	<0.500	<50.0	9.40	15.1
Field Point MW6A		Well Screen Interval (feet): 80-110						
11/16/2012	165	<0.500	0.334 J	0.265 J	<0.500	<50.0	7.73	12.8
Field Point MW6B		Well Screen Interval (feet): 130-140						
11/16/2012	126	<0.500	<0.500	<0.500	<0.500	<50.0	<0.500	<0.500
Field Point MW6C		Well Screen Interval (feet): 170-180						
11/16/2012	38.5	<0.500	<0.500	0.346 J	<0.500	<50.0	<0.500	<0.500
11/16/2012 D	40.3	<0.500	<0.500	0.286 J	<0.500	14.4 J	<0.500	<0.500
Field Point MW7A		Well Screen Interval (feet): 80-110						
11/16/2012	123	<0.500	0.247 J	<0.500	<0.500	<50.0	6.75	12.2
Field Point MW7B		Well Screen Interval (feet): 130-140						
11/16/2012	75.0	<0.500	0.201 J	<0.500	<0.500	<50.0	1.52	<0.500
Field Point MW7C		Well Screen Interval (feet): 165-175						
11/16/2012	6.90	<0.500	<0.500	<0.500	<0.500	<50.0	<0.500	<0.500
Field Point MW8A		Well Screen Interval (feet): 85-115						
11/16/2012	NO PERMITTED ACCESS TO WELL							
Field Point MW8B		Well Screen Interval (feet): 130-140						
11/16/2012	NO PERMITTED ACCESS TO WELL							
Field Point MW8C		Well Screen Interval (feet): 150-160						
11/16/2012	NO PERMITTED ACCESS TO WELL							
Field Point MW9A		Well Screen Interval (feet): 80-110.5						
11/17/2012	82.2	<0.500	<0.500	0.510	<0.500	<50.0	4.30	5.09
Field Point MW9B		Well Screen Interval (feet): 140-150						
11/17/2012	168	<0.500	<0.500	<0.500	<0.500	<50.0	0.380 J	<0.500

TABLE 1
WATER LEVEL MEASUREMENTS AND GROUNDWATER ANALYSES
FORMER EXXONMOBIL JALK FEE PROPERTY
10607 NORWALK BOULEVARD
SANTA FE SPRINGS, CALIFORNIA
CARDNO ERI 1155

DATE	1,1- Dichloroethene ($\mu\text{g/l}$)	1,2,3- Trichlorobenzene ($\mu\text{g/l}$)	1,2,4- Trimethylbenzene ($\mu\text{g/l}$)	1,2- Dichloropropane ($\mu\text{g/l}$)	1,4- Dichlorobenzene ($\mu\text{g/l}$)	Acetone ($\mu\text{g/l}$)	Chloroform ($\mu\text{g/l}$)	Trichlorofluoro- -methane ($\mu\text{g/l}$)
Field Point MW9C		Well Screen Interval (feet): 175-185						
11/17/2012	53.2	<0.500	<0.500	<0.500	<0.500	<50.0	<0.500	<0.500
Field Point MW10A		Well Screen Interval (feet): 80-110						
11/16/2012	141	<0.500	<0.500	<0.500	<0.500	<50.0	11.6	16.1
Field Point MW10B		Well Screen Interval (feet): 140-150						
11/16/2012	105	<0.500	<0.500	<0.500	<0.500	<50.0	4.34	3.27
Field Point MW10C		Well Screen Interval (feet): 165-175						
11/16/2012	109	<0.500	<0.500	<0.500	<0.500	<50.0	<0.500	<0.500
Field Point TRIP BLANK		Well Screen Interval (feet):						
11/16/2012	<0.500	<0.500	<0.500	<0.500	<0.500	<50.0	<0.500	<0.500
11/17/2012	<0.500	<0.500	<0.500	<0.500	<0.500	<50.0	<0.500	<0.500

TABLE 1
WATER LEVEL MEASUREMENTS AND GROUNDWATER ANALYSES
FORMER EXXONMOBIL JALK FEE PROPERTY
10607 NORWALK BOULEVARD
SANTA FE SPRINGS, CALIFORNIA
CARDNO ERI 1155

EXPLANATION:

Constituents analyzed by EPA Method 8260B.

(a) = values supplied by previous consultant

(b) = date of well abandonment not known

D = duplicate

ELEV = elevation

GW = groundwater

feet-MSL = feet above mean sea level

feet-TOC = feet below top of casing

NAPL = non-aqueous phase liquid (thickness measured in feet)

EPA = Environmental Protection Agency

DCE = c-1,2-Dichloroethene

PCE = Tetrachloroethylene or perchloroethylene

TCE = Trichloroethene

J = estimated value between method detection limit and practical quantitation limit

ND = not detected at or above the stated laboratory reporting limit

< = not detected at or above the stated laboratory reporting limit

µg/l = micrograms per liter

TABLE 2
CUMULATIVE WATER LEVEL MEASUREMENTS AND GROUNDWATER ANALYSES
FORMER EXXONMOBIL JALK FEE PROPERTY
10607 NORWALK BOULEVARD
SANTA FE SPRINGS, CALIFORNIA
CARDNO ERI 1155

DATE	Well Elev (feet-MSL)	GW Depth (feet-TOC)	GW Elev (feet-MSL)	PCE ($\mu\text{g/l}$)	TCE ($\mu\text{g/l}$)	DCE ($\mu\text{g/l}$)	Vinyl Chloride ($\mu\text{g/l}$)	1,1,1- Trichloroethane ($\mu\text{g/l}$)	1,1,2-Trichloro- 1,2,2 Trifluoroethane ($\mu\text{g/l}$)	1,1- Dichloroethane ($\mu\text{g/l}$)
Field Point MMW-03										
8/31/2000 (a)	134.26	70.67	63.59	4.4	0.5	--		--	--	1.7
3/5/2001 (a)	134.26	71.30	62.96	14	20	0.65 J		<1.0	--	1.5
6/12/2001 (a)	134.26	70.07	64.19	9.5	22	<1.0		<1.0	--	1.9
12/31/2001 (a)(b) WELL ABANDONED										
Field Point MMW-04										
6/6/2000 (a)	131.40	70.46	60.94	--	--	--		--	--	--
8/31/2000 (a)	131.40	70.58	60.82	6.7	17	--		ND<1.0	--	1.9
11/28/2000 (a)	131.40	71.28	60.12	--	--	--		--	--	--
3/5/2001 (a)	131.40	71.02	60.38	26	27	2.3		ND<1.0	--	2.7
6/12/2001 (a)	131.40	69.81	61.59	11	21	2		ND<1.0	--	2.6
12/23/2003 (a)	131.40	78.38	53.02	16	21	ND<1.0		ND<1.0	--	2.3
12/21/2004 (a)	131.40	84.73	46.67	14	22	0.83 J		ND<1.0	ND<10	2.4
12/2/2005 (a)	131.40	79.01	52.39	15	17	0.71 J		ND<1.0	ND<10	1.8
12/19/2006 (a)	131.40	76.66	54.74	9.1	15	0.68 J		ND<1.0	ND<10	1.9
12/21/2007 (a)	131.40	79.73	51.67	17	23	1.8		ND<1.0	ND<10	3.2
10/24/2008 (a)	131.40	84.13	47.27	26	27	5.8		ND<1.0	2.0 J	4.5
9/22/2009 (a)	131.40	91.00	40.40	71	60	47		0.52 J	8.1 J	17
10/14/2010	131.40	94.25	37.15	85	64	61	<0.50	<1.0	11	21
4/19/2011	131.40	91.75	39.65	130	78	74	<0.50	0.93 J	13	28
11/16/2011	131.40	86.13	45.27	100	61	60	<0.50	0.70 J	9.7 J	22
5/3/2012	131.40	84.10	47.30	56.2	48.3	29.0	<0.500	0.300 J	8.83	13.4
11/17/2012	131.40	86.59	44.81	73.0	52.5	27.8	<0.500	0.267 J	9.11	12.8
Field Point MMW-05										
9/15/2000 (a)				ND<1.0	ND<1.0	--		--	--	ND<1.0
3/5/2001 (a)	133.38	72.47	60.91	650	63	4.1 J		ND<5.0	--	3.6 J

TABLE 2
CUMULATIVE WATER LEVEL MEASUREMENTS AND GROUNDWATER ANALYSES
FORMER EXXONMOBIL JALK FEE PROPERTY
10607 NORWALK BOULEVARD
SANTA FE SPRINGS, CALIFORNIA
CARDNO ERI 1155

DATE	Well Elev (feet-MSL)	GW Depth (feet-TOC)	GW Elev (feet-MSL)	PCE ($\mu\text{g/l}$)	TCE ($\mu\text{g/l}$)	DCE ($\mu\text{g/l}$)	Vinyl Chloride ($\mu\text{g/l}$)	1,1,1- Trichloroethane ($\mu\text{g/l}$)	1,1,2-Trichloro- 1,2,2 Trifluoroethane ($\mu\text{g/l}$)	1,1- Dichloroethane ($\mu\text{g/l}$)	
6/12/2001 (a)	133.38	71.29	62.09	350	44	3.7		ND<2.0	--	3.2	
12/23/2003 (a)	133.38	79.72	53.66	660	140	61		5.2	--	14	
12/21/2004 (a)	133.38	86.02	47.36	510	190	180		ND<10	14 J	43	
12/2/2005 (a)	133.38	80.69	52.69	330	110	120		4.3	12	33	
12/19/2006 (a)	133.38	78.29	55.09	160	100	120		3.6	ND<10	37	
12/21/2007 (a)	133.38	80.94	52.44	640	110	110		ND<5.0	ND<50	36	
10/24/2008 (a)	133.38	85.19	48.19	510	100	96		ND<5.0	15 J	29	
9/22/2009 (a)	133.38	92.10	41.28	160	120	120		1.2	24	42	
10/14/2010	133.38	96.85	36.53	170	130	71	<0.50	<1.0	25	25	
4/19/2011	133.38	95.05	38.33	500	130	76	1.1	<1.0	18	24	
11/16/2011	133.38	89.24	44.14	210	140	88	<1.0	1.1 J	26	37	
5/3/2012	133.38	85.80	47.58	144	102	67.1	<0.500	0.940	21.0	33.0	
11/16/2012	133.38	89.08	44.30	192	131	58.0	<0.500	0.934	38.6	31.3	
Field Point	MW6A	Well Screen Interval (feet): 80-110									
4/19/2011	136.53	94.53	42.00	830	290	900	7.2	<10	7.1 J	14	
11/16/2011	136.53	88.79	47.74	500	150	110	<2.5	<5.0	28 J	29	
5/3/2012	136.53	86.90	49.63	240	146	108	0.760	1.41	36.4	36.4	
11/16/2012	136.53	88.52	48.01	197	132	60.2	<0.500	0.842	30.8	30.1	
Field Point	MW6B	Well Screen Interval (feet): 130-140									
4/19/2011	136.54	93.89	42.65	130	97	100	0.48 J	<1.0	2.3 J	27	
11/16/2011	136.54	88.06	48.48	1200	180	180	3.3	<1.0	3.2 J	23	
5/3/2012	136.54	86.30	50.24	307	146	95.6	1.05	<0.500	4.06	29.9	
11/16/2012	136.54	87.88	48.66	1480	255	82.0	1.97	<0.500	1.60	23.8	
Field Point	MW6C	Well Screen Interval (feet): 170-180									
4/19/2011	136.53	93.23	43.30	1800	140	110	11	<1.0	<10	3.0	
4/19/2011 D				DUPLICATE SAMPLE INADVERTENTLY NOT TAKEN							

TABLE 2
CUMULATIVE WATER LEVEL MEASUREMENTS AND GROUNDWATER ANALYSES
FORMER EXXONMOBIL JALK FEE PROPERTY
10607 NORWALK BOULEVARD
SANTA FE SPRINGS, CALIFORNIA
CARDNO ERI 1155

DATE	Well Elev (feet-MSL)	GW Depth (feet-TOC)	GW Elev (feet-MSL)	PCE ($\mu\text{g/l}$)	TCE ($\mu\text{g/l}$)	DCE ($\mu\text{g/l}$)	Vinyl Chloride ($\mu\text{g/l}$)	1,1,1- Trichloroethane ($\mu\text{g/l}$)	1,1,2-Trichloro- 1,2,2 Trifluoroethane ($\mu\text{g/l}$)	1,1- Dichloroethane ($\mu\text{g/l}$)	
11/16/2011	136.53	87.38	49.15	1300	88	690	22	<10	<100	5.0 J	
11/16/2011 D	136.53	87.38	49.15	820	76	560	21	<10	<100	8.3 J	
5/3/2012	136.53	85.68	50.85	11.5	57.6	43.4	31.7	<0.500	<1.00	9.82	
5/3/2012 D	136.53	85.68	50.85	DUPLICATE SAMPLE INADVERTENTLY NOT TAKEN							
11/16/2012	136.53	87.26	49.27	192	66.2	56.3	5.23	<0.500	<1.00	11.4	
11/16/2012 D	136.53	87.26	49.27	218	68.9	56.6	5.47	<0.500	<1.00	11.5	
Field Point	MW7A	Well Screen Interval (feet): 80-110									
4/19/2011	138.22	94.64	43.58	110	73	41	0.61	<1.0	12	15	
11/16/2011	138.22	88.89	49.33	170	120	85	<0.50	0.99 J	25	31	
5/3/2012	138.22	86.80	51.42	191	139	71.9	0.480 J	1.40	35.9	34.5	
11/16/2012	138.22	88.64	49.58	161	106	47.0	<0.500	0.632	26.4	24.0	
Field Point	MW7B	Well Screen Interval (feet): 130-140									
4/19/2011	138.14	94.12	44.02	50	34	27	<0.50	<1.0	4.2 J	11	
11/16/2011	138.14	88.28	49.86	84	41	99	1.4	<1.0	7.1 J	17	
5/3/2012	138.14	86.30	51.84	48.8	24.3	181	0.370 J	0.570	9.87	28.4	
11/16/2012	138.14	88.09	50.05	106	44.9	94.9	0.697	0.209 J	3.47	19.9	
Field Point	MW7C	Well Screen Interval (feet): 165-175									
4/19/2011	138.22	94.26	43.96	9.9	5.2	4.8	<0.50	<1.0	1.0 J	1.3	
11/16/2011	138.22	88.41	49.81	28	5.5	7.8	<0.50	<1.0	<10	1.2	
5/3/2012	138.22	85.70	52.52	20.0	3.34	2.34	<0.500	<0.500	<1.00	0.730	
11/16/2012	138.22	88.18	50.04	19.0	6.52	5.36	<0.500	<0.500	<1.00	1.38	
Field Point	MW8A	Well Screen Interval (feet): 85-115									
4/19/2011	137.66	94.53	43.13	4.7	14	18	<0.50	<1.0	<10	1.1	
11/16/2011	137.66	89.61	48.05	1.6	19	220	1.0	<1.0	<10	6.0	
5/3/2012	137.66	87.60	50.06	<0.500	9.11	56.8	166	<0.500	<1.00	11.3	
11/16/2012	137.66		137.66	NO PERMITTED ACCESS TO WELL							

TABLE 2
CUMULATIVE WATER LEVEL MEASUREMENTS AND GROUNDWATER ANALYSES
FORMER EXXONMOBIL JALK FEE PROPERTY
10607 NORWALK BOULEVARD
SANTA FE SPRINGS, CALIFORNIA
CARDNO ERI 1155

DATE	Well Elev (feet-MSL)	GW Depth (feet-TOC)	GW Elev (feet-MSL)	PCE ($\mu\text{g/l}$)	TCE ($\mu\text{g/l}$)	DCE ($\mu\text{g/l}$)	Vinyl Chloride ($\mu\text{g/l}$)	1,1,1- Trichloroethane ($\mu\text{g/l}$)	1,1,2-Trichloro- 1,2,2 Trifluoroethane ($\mu\text{g/l}$)	1,1- Dichloroethane ($\mu\text{g/l}$)	
Field Point MW8B											
4/19/2011	137.70	94.38	43.32	2.7	67	11	<0.50	<1.0	<10	2.0	
11/16/2011	137.70	88.51	49.19	3.8	120	63	1.4	<1.0	<10	4.7	
5/3/2012	137.70	86.80	50.90	0.430 J	54.2	127	14.8	<0.500	<1.00	5.64	
11/16/2012	137.70		137.7	NO PERMITTED ACCESS TO WELL							
Field Point MW8C											
4/19/2011	137.73	94.36	43.37	7.2	22	3.8	<0.50	<1.0	<10	0.93 J	
11/16/2011	137.73	88.54	49.19	9.7	78	78	0.76	<1.0	<10	4.7	
5/3/2012	137.73	86.50	51.23	1.41	22.4	129	24.6	<0.500	<1.00	6.47	
11/16/2012	137.73		137.73	NO PERMITTED ACCESS TO WELL							
Field Point MW9A											
11/17/2012	135.14	88.19	46.95	259	75.5	42.1	<0.500	0.707	12.8	22.2	
Field Point MW9B											
11/17/2012	135.18	86.19	48.99	155	107	57.7	<0.500	<0.500	2.97	24.9	
Field Point MW9C											
11/17/2012	135.38	87.35	48.03	29.7	30.3	21.3	<0.500	<0.500	<1.00	7.02	
Field Point MW10A											
11/16/2012	137.43	88.99	48.44	191	148	83.7	1.49	0.688	42.8	23.3	
Field Point MW10B											
11/16/2012	137.46	88.01	49.45	140	101	53.2	<0.500	0.197 J	18.0	21.2	
Field Point MW10C											
11/16/2012	137.45	87.99	49.46	65.0	86.3	46.1	<0.500	<0.500	<1.00	10.1	
Field Point TRIP BLANK											
10/14/2010				<1.0	<1.0	<1.0	<0.50	<1.0	<10	<1.0	
4/19/2011				<1.0	<1.0	<1.0	<0.50	<1.0	<10	<1.0	
11/16/2011				<1.0	<1.0	<1.0	<0.50	<1.0	<10	<1.0	
5/3/2012				<0.500	<0.500	<0.500	<0.500	<0.500	<1.00	<0.500	

TABLE 2
CUMULATIVE WATER LEVEL MEASUREMENTS AND GROUNDWATER ANALYSES
FORMER EXXONMOBIL JALK FEE PROPERTY
10607 NORWALK BOULEVARD
SANTA FE SPRINGS, CALIFORNIA
CARDNO ERI 1155

DATE	Well Elev (feet-MSL)	GW Depth (feet-TOC)	GW Elev (feet-MSL)	PCE ($\mu\text{g/l}$)	TCE ($\mu\text{g/l}$)	DCE ($\mu\text{g/l}$)	Vinyl Chloride ($\mu\text{g/l}$)	1,1,1- Trichloroethane ($\mu\text{g/l}$)	1,1,2-Trichloro- 1,2,2- Trifluoroethane ($\mu\text{g/l}$)	1,1- Dichloroethane ($\mu\text{g/l}$)
11/16/2012				<0.500	<0.500	<0.500	<0.500	<0.500	<1.00	<0.500
11/17/2012				<0.500	<0.500	<0.500	<0.500	<0.500	<1.00	<0.500

TABLE 2
CUMULATIVE WATER LEVEL MEASUREMENTS AND GROUNDWATER ANALYSES
FORMER EXXONMOBIL JALK FEE PROPERTY
10607 NORWALK BOULEVARD
SANTA FE SPRINGS, CALIFORNIA
CARDNO ERI 1155

DATE	1,1- Dichloroethene ($\mu\text{g/l}$)	1,2,3- Trichlorobenzene ($\mu\text{g/l}$)	1,2,4- Trimethylbenzene ($\mu\text{g/l}$)	1,2- Dichloropropane ($\mu\text{g/l}$)	1,4- Dichlorobenzene ($\mu\text{g/l}$)	Acetone ($\mu\text{g/l}$)	Chloroform ($\mu\text{g/l}$)	Trichlorofluoro- -methane ($\mu\text{g/l}$)
Field Point MMW-03 Well Screen Interval (feet):								
8/31/2000 (a)	6.5	ND	--	--	ND	--	--	--
3/5/2001 (a)	7.5	ND	<1.0	<1.0	ND	5.7 J	<1.0	<10
6/12/2001 (a)	9.9	ND	<1.0	1.4	ND	<10	<1.0	<10
12/31/2001 (a)(b)								
Field Point MMW-04 Well Screen Interval (feet): 60-105								
6/6/2000 (a)	--	--	--	--	--	--	--	--
8/31/2000 (a)	2	ND	--	--	ND	--	--	--
11/28/2000 (a)	--	--	--	--	--	--	--	--
3/5/2001 (a)	5.4	ND	ND<1.0	ND<1.0	ND	7.3 J	ND<1.0	ND<10
6/12/2001 (a)	4.7	ND	1.2	ND<1.0	ND	ND<10	ND<1.0	ND<10
12/23/2003 (a)	8.8	ND	ND<1.0	ND<1.0	ND	ND<10	ND<1.0	ND<10
12/21/2004 (a)	14	ND	ND<1.0	1.6	ND	ND<10	0.23 J	ND<10
12/2/2005 (a)	15	ND	ND<1.0	ND<1.0	ND	ND<10	ND<1.0	ND<10
12/19/2006 (a)	12	ND	ND<1.0	1.1	ND	11 J	ND<1.0	ND<10
12/21/2007 (a)	34	ND	ND<1.0	3	ND	ND<50	ND<1.0	ND<10
10/24/2008 (a)	45	0.36 J,B	ND<1.0	4.1	0.25 J	ND<50	1.30	0.82 J
9/22/2009 (a)	130	ND<1.0	ND<1.0	ND<1.0	ND<1.0	ND<50	1.70	3.9 J
10/14/2010	57	<1.0	<1.0	<1.0	<1.0	<50	0.98 J	4.5 J
4/19/2011	68	<1.0	<1.0	<1.0	<1.0	<50	1.6	5.9 J
11/16/2011	72	<1.0	<1.0	1.5	<1.0	<20	2.2	4.9 J
5/3/2012	52.7	<0.500	<0.500	1.98	<0.500	<50.0	2.44	4.62
11/17/2012	74.3	<0.500	0.244 J	1.95	<0.500	<50.0	1.81	4.26
Field Point MMW-05 Well Screen Interval (feet): 61-106								
9/15/2000 (a)	ND<1.0	ND	--	--	ND	--	--	--
3/5/2001 (a)	61	ND	ND<5.0	ND<5.0	ND	62.00	ND<5.0	ND<50
6/12/2001 (a)	42	ND	ND<2.0	2.5	ND	ND<20	ND<2.0	ND<20
12/23/2003 (a)	190	ND	ND<1.0	2.5	ND	ND<10	1.6	ND<10
12/21/2004 (a)	370	ND	ND<10	ND<10	ND	ND<100	3.0 J	10 J
12/2/2005 (a)	220	ND	ND<1.0	ND<1.0	ND	ND<10	1.4	5.3 J
12/19/2006 (a)	240	ND	ND<1.0	1.8	ND	ND<50	1.4	7.1 J
12/21/2007 (a)	190	ND	ND<5.0	ND<5.0	ND	ND<250	ND<5.0	ND<50

TABLE 2
CUMULATIVE WATER LEVEL MEASUREMENTS AND GROUNDWATER ANALYSES
FORMER EXXONMOBIL JALK FEE PROPERTY
10607 NORWALK BOULEVARD
SANTA FE SPRINGS, CALIFORNIA
CARDNO ERI 1155

DATE	1,1- Dichloroethene ($\mu\text{g/l}$)	1,2,3- Trichlorobenzene ($\mu\text{g/l}$)	1,2,4- Trimethylbenzene ($\mu\text{g/l}$)	1,2- Dichloropropane ($\mu\text{g/l}$)	1,4- Dichlorobenzene ($\mu\text{g/l}$)	Acetone ($\mu\text{g/l}$)	Chloroform ($\mu\text{g/l}$)	Trichlorofluoro- -methane ($\mu\text{g/l}$)
10/24/2008 (a)	130	3.0 J,B	ND<5.0	ND<5.0	1.2 J	ND<250	1.8 J	6.6 J
9/22/2009 (a)	190	ND<1.0	ND<1.0	ND<1.0	ND<1.0	ND<250	1.5	7.4 J
10/14/2010	150	<1.0	0.38 J	<1.0	<1.0	<50	1.7	5.9 J
4/19/2011	110	<1.0	<1.0	<1.0	<1.0	<50	2.2	6.2 J
11/16/2011	130	<2.0	<2.0	<2.0	<2.0	<40	5.3	8.4 J
5/3/2012	122	<0.500	<0.500	<0.500	<0.500	<50.0	6.15	7.71
11/16/2012	166	<0.500	<0.500	0.392 J	<0.500	<50.0	9.40	15.1
Field Point MW6A	Well Screen Interval (feet): 80-110							
4/19/2011	70	<10	<10	<10	<10	<500	<10	<100
11/16/2011	130	<5.0	<5.0	<5.0	<5.0	<100	3.6 J	11 J
5/3/2012	149	<0.500	<0.500	0.510	<0.500	<50.0	7.93	14.7
11/16/2012	165	<0.500	0.334 J	0.265 J	<0.500	<50.0	7.73	12.8
Field Point MW6B	Well Screen Interval (feet): 130-140							
4/19/2011	150	<1.0	0.37 J	<1.0	<1.0	<50	0.34 J	<10
11/16/2011	74	<1.0	<1.0	<1.0	<1.0	<20	0.98 J	<10
5/3/2012	150	<0.500	<0.500	0.340 J	<0.500	<50.0	0.600	<0.500
11/16/2012	126	<0.500	<0.500	<0.500	<0.500	<50.0	<0.500	<0.500
Field Point MW6C	Well Screen Interval (feet): 170-180							
4/19/2011	18	<1.0	1.2	<1.0	<1.0	<50	3.2	<10
4/19/2011 D								
11/16/2011	23	<10	<10	<10	<10	<200	<10	<100
11/16/2011 D	44	<10	<10	<10	<10	<200	<10	<100
5/3/2012	38.0	<0.500	<0.500	0.500	<0.500	<50.0	<0.500	<0.500
5/3/2012 D								
11/16/2012	38.5	<0.500	<0.500	0.346 J	<0.500	<50.0	<0.500	<0.500
11/16/2012 D	40.3	<0.500	<0.500	0.286 J	<0.500	14.4 J	<0.500	<0.500
Field Point MW7A	Well Screen Interval (feet): 80-110							
4/19/2011	70	<1.0	<1.0	<1.0	<1.0	<50	2.2	3.7 J
11/16/2011	120	<1.0	<1.0	<1.0	<1.0	<20	5.0	11
5/3/2012	135	<0.500	<0.500	0.420 J	<0.500	<50.0	9.05	15.2
11/16/2012	123	<0.500	0.247 J	<0.500	<0.500	<50.0	6.75	12.2

TABLE 2
CUMULATIVE WATER LEVEL MEASUREMENTS AND GROUNDWATER ANALYSES
FORMER EXXONMOBIL JALK FEE PROPERTY
10607 NORWALK BOULEVARD
SANTA FE SPRINGS, CALIFORNIA
CARDNO ERI 1155

DATE	1,1- Dichloroethene ($\mu\text{g/l}$)	1,2,3- Trichlorobenzene ($\mu\text{g/l}$)	1,2,4- Trimethylbenzene ($\mu\text{g/l}$)	1,2- Dichloropropane ($\mu\text{g/l}$)	1,4- Dichlorobenzene ($\mu\text{g/l}$)	Acetone ($\mu\text{g/l}$)	Chloroform ($\mu\text{g/l}$)	Trichlorofluoro- -methane ($\mu\text{g/l}$)
Field Point MW7B								
			Well Screen Interval (feet): 130-140					
4/19/2011	38	<1.0	0.60 J	<1.0	<1.0	<50	1.3	0.82 J
11/16/2011	52	<1.0	1.4	<1.0	<1.0	<20	2.1	<10
5/3/2012	93.5	<0.500	<0.500	0.280 J	<0.500	<50.0	2.55	0.540
11/16/2012	75.0	<0.500	0.201 J	<0.500	<0.500	<50.0	1.52	<0.500
Field Point MW7C								
			Well Screen Interval (feet): 165-175					
4/19/2011	5.6	<1.0	0.40 J	<1.0	<1.0	<50	0.84 J	<10
11/16/2011	2.6	<1.0	0.69 J	<1.0	<1.0	<20	<1.0	<10
5/3/2012	1.18	<0.500	<0.500	<0.500	<0.500	<50.0	<0.500	<0.500
11/16/2012	6.90	<0.500	<0.500	<0.500	<0.500	<50.0	<0.500	<0.500
Field Point MW8A								
			Well Screen Interval (feet): 85-115					
4/19/2011	11	<1.0	19	<1.0	<1.0	<50	6.1	<10
11/16/2011	80	<1.0	3.0	<1.0	<1.0	<20	<1.0	<10
5/3/2012	17.2	<0.500	2.08	<0.500	<0.500	<50.0	<0.500	<0.500
11/16/2012	NO PERMITTED ACCESS TO WELL							
Field Point MW8B								
			Well Screen Interval (feet): 130-140					
4/19/2011	33	<1.0	1.6	<1.0	<1.0	29 J	8.8	<10
11/16/2011	57	<1.0	2.1	<1.0	<1.0	<20	<1.0	<10
5/3/2012	78.2	<0.500	<0.500	<0.500	<0.500	<50.0	<0.500	<0.500
11/16/2012	NO PERMITTED ACCESS TO WELL							
Field Point MW8C								
			Well Screen Interval (feet): 150-160					
4/19/2011	15	<1.0	1.5	<1.0	<1.0	65	13	<10
11/16/2011	60	<1.0	2.5	<1.0	<1.0	20	<1.0	<10
5/3/2012	87.3	<0.500	<0.500	<0.500	<0.500	<50.0	<0.500	<0.500
11/16/2012	NO PERMITTED ACCESS TO WELL							
Field Point MW9A								
			Well Screen Interval (feet): 80-110.5					
11/17/2012	82.2	<0.500	<0.500	0.510	<0.500	<50.0	4.30	5.09
Field Point MW9B								
			Well Screen Interval (feet): 140-150					
11/17/2012	168	<0.500	<0.500	<0.500	<0.500	<50.0	0.380 J	<0.500

TABLE 2
CUMULATIVE WATER LEVEL MEASUREMENTS AND GROUNDWATER ANALYSES
FORMER EXXONMOBIL JALK FEE PROPERTY
10607 NORWALK BOULEVARD
SANTA FE SPRINGS, CALIFORNIA
CARDNO ERI 1155

DATE	1,1- Dichloroethene ($\mu\text{g/l}$)	1,2,3- Trichlorobenzene ($\mu\text{g/l}$)	1,2,4- Trimethylbenzene ($\mu\text{g/l}$)	1,2- Dichloropropane ($\mu\text{g/l}$)	1,4- Dichlorobenzene ($\mu\text{g/l}$)	Acetone ($\mu\text{g/l}$)	Chloroform ($\mu\text{g/l}$)	Trichlorofluoro- -methane ($\mu\text{g/l}$)
Field Point MW9C		Well Screen Interval (feet): 175-185						
11/17/2012	53.2	<0.500	<0.500	<0.500	<0.500	<50.0	<0.500	<0.500
Field Point MW10A		Well Screen Interval (feet): 80-110						
11/16/2012	141	<0.500	<0.500	<0.500	<0.500	<50.0	11.6	16.1
Field Point MW10B		Well Screen Interval (feet): 140-150						
11/16/2012	105	<0.500	<0.500	<0.500	<0.500	<50.0	4.34	3.27
Field Point MW10C		Well Screen Interval (feet): 165-175						
11/16/2012	109	<0.500	<0.500	<0.500	<0.500	<50.0	<0.500	<0.500
Field Point TRIP BLANK		Well Screen Interval (feet):						
10/14/2010	<1.0	<1.0	<1.0	<1.0	<1.0	<50	<1.0	<10
4/19/2011	<1.0	<1.0	<1.0	<1.0	<1.0	<50	<1.0	<10
11/16/2011	<1.0	<1.0	<1.0	<1.0	<1.0	<20	<1.0	<10
5/3/2012	<0.500	<0.500	<0.500	<0.500	<0.500	<50.0	<0.500	<0.500
11/16/2012	<0.500	<0.500	<0.500	<0.500	<0.500	<50.0	<0.500	<0.500
11/17/2012	<0.500	<0.500	<0.500	<0.500	<0.500	<50.0	<0.500	<0.500

TABLE 2
CUMULATIVE WATER LEVEL MEASUREMENTS AND GROUNDWATER ANALYSES
FORMER EXXONMOBIL JALK FEE PROPERTY
10607 NORWALK BOULEVARD
SANTA FE SPRINGS, CALIFORNIA
CARDNO ERI 1155

EXPLANATION:

Constituents analyzed by EPA Method 8260B.

(a) = values supplied by previous consultant

(b) = date of well abandonment not known

D = duplicate

ELEV = elevation

GW = groundwater

feet-MSL = feet above mean sea level

feet-TOC = feet below top of casing

NAPL = non-aqueous phase liquid (thickness measured in feet)

EPA = Environmental Protection Agency

DCE = c-1,2-Dichloroethene

PCE = Tetrachloroethylene or perchloroethylene

TCE = Trichloroethylene

J = estimated value between method detection limit and practical quantitation limit

ND = not detected at or above the stated laboratory reporting limit

< = not detected at or above the stated laboratory reporting limit

µg/l = micrograms per liter

TABLE 3
SUMMARY OF BTEX AND FUEL OXYGENATES GROUNDWATER MONITORING RESULTS
FORMER EXXONMOBIL JALK FEE PROPERTY
10607 NORWALK BOULEVARD
SANTA FE SPRINGS, CALIFORNIA
CARDNO ERI 1155

Date	Well Elev (feet-MSL)	GW Depth (feet-TOC)	GW Elev (feet-MSL)	NAPL (feet)	Benzene (ug/l)	Toluene (ug/l)	Ethyl- benzene (ug/l)	Xylenes (ug/l)	MTBE (ug/l)	TPHg (ug/l)	TPHd (ug/l)	TPHo (ug/l)	EDB (ug/l)	EDC (ug/l)
Field Point	MMW-04	Well Screen Interval (feet): 60-105												
11/17/2012	133.14	86.59	46.55	no	<0.500	<0.500	<0.500	<0.500	<1.00	130	<1000	98.1 J	<0.500	1.26
Field Point	MMW-05	Well Screen Interval (feet): 61-106												
11/16/2012	135.54	89.08	46.46	no	<0.500	<0.500	<0.500	<0.500	<1.00	285	<909	64.9 J	<0.500	4.15
Field Point	MW6A	Well Screen Interval (feet): 80-110												
11/16/2012	136.53	88.52	48.01	no	<0.500	<0.500	<0.500	<0.500	0.408 J	250	<909	<909	<0.500	4.54
Field Point	MW6B	Well Screen Interval (feet): 130-140												
11/16/2012	136.54	87.88	48.66	no	0.445 J	<0.500	<0.500	<0.500	<1.00	712	584 J	640 J	<0.500	4.40
Field Point	MW6C	Well Screen Interval (feet): 170-180												
11/16/2012	136.53	87.26	49.27	no	<0.500	<0.500	<0.500	<0.500	<1.00	198	574 J	705 J	<0.500	2.07
11/16/2012 D	136.53	87.26	49.27	no	<0.500	<0.500	<0.500	<0.500	<1.00	184	704 J	385 J	<0.500	2.14
Field Point	MW7A	Well Screen Interval (feet): 80-110												
11/16/2012	138.22	88.64	49.58	no	<0.500	<0.500	<0.500	<0.500	<1.00	212	78.4 J	79.3 J	<0.500	3.66
Field Point	MW7B	Well Screen Interval (feet): 130-140												
11/16/2012	138.14	88.09	50.05	no	0.376 J	0.338 J	<0.500	<0.500	<1.00	208	562 J	366 J	<0.500	3.49
Field Point	MW7C	Well Screen Interval (feet): 165-175												
11/16/2012	138.22	88.18	50.04	no	<0.500	<0.500	<0.500	<0.500	<1.00	<50.0	768 J	778 J	<0.500	0.240 J
Field Point	MW8A	Well Screen Interval (feet): 85-115												
11/16/2012	137.66			no	NO PERMITTED ACCESS TO WELL									
Field Point	MW8B	Well Screen Interval (feet): 130-140												
11/16/2012	137.70			no	NO PERMITTED ACCESS TO WELL									
Field Point	MW8C	Well Screen Interval (feet): 150-160												
11/16/2012	137.73			no	NO PERMITTED ACCESS TO WELL									
Field Point	MW9A	Well Screen Interval (feet): 80-110.5												
11/17/2012	135.14	88.19	46.95	no	<0.500	<0.500	<0.500	<0.500	0.693 J	193	59.8 J	97.2 J	<0.500	3.43
Field Point	MW9B	Well Screen Interval (feet): 140-150												
11/17/2012	135.18	86.19	48.99	no	<0.500	<0.500	<0.500	<0.500	<1.00	208	232 J	305 J	<0.500	4.79

TABLE 3
SUMMARY OF BTEX AND FUEL OXYGENATES GROUNDWATER MONITORING RESULTS
FORMER EXXONMOBIL JALK FEE PROPERTY
10607 NORWALK BOULEVARD
SANTA FE SPRINGS, CALIFORNIA
CARDNO ERI 1155

Date	Well Elev (feet-MSL)	GW Depth (feet-TOC)	GW Elev (feet-MSL)	NAPL (feet)	Benzene (ug/l)	Toluene (ug/l)	Ethyl- benzene (ug/l)	Xylenes (ug/l)	MTBE (ug/l)	TPHg (ug/l)	TPHd (ug/l)	TPHo (ug/l)	EDB (ug/l)	EDC (ug/l)
Field Point	MW9C	Well Screen Interval (feet): 175-185												
11/17/2012	135.38	87.35	48.03	no	<0.500	<0.500	<0.500	<0.500	<1.00	72.5	125 J	179 J	<0.500	1.19
Field Point	MW10A	Well Screen Interval (feet): 80-110												
11/16/2012	137.43	88.99	48.44	no	<0.500	<0.500	<0.500	<0.500	0.301 J	279	<909	59.5 J	<0.500	3.51
Field Point	MW10B	Well Screen Interval (feet): 140-150												
11/16/2012	137.46	88.01	49.45	no	<0.500	<0.500	<0.500	<0.500	<1.00	210	313 J	369 J	<0.500	3.33
Field Point	MW10C	Well Screen Interval (feet): 165-175												
11/16/2012	137.44	87.99	49.45	no	<0.500	<0.500	<0.500	<0.500	<1.00	168	210 J	241 J	<0.500	2.22
Field Point	TRIP BLANK	Well Screen Interval (feet):												
11/16/2012				no	<0.500	<0.500	<0.500	<0.500	<0.500				<0.500	<0.500
11/17/2012				no	<0.500	<0.500	<0.500	<0.500	<1.00	<50.0			<0.500	<0.500

TABLE 3
SUMMARY OF BTEX AND FUEL OXYGENATES GROUNDWATER MONITORING RESULTS
FORMER EXXONMOBIL JALK FEE PROPERTY
10607 NORWALK BOULEVARD
SANTA FE SPRINGS, CALIFORNIA
CARDNO ERI 1155

Explanation:

BTEX = Benzene, toluene, ethylbenzene, and total xylenes

DUP = duplicate sample

ELEV = elevation

EPA = Environmental Protection Agency

GW = groundwater

DIPE = di-isopropyl ether

EDB = 1,2-dibromoethane

EDC = 1,2-dichloroethane

ETBE = ethyl tertiary butyl ether

MTBE = methyl tertiary butyl ether

MTBE analyzed by EPA Method 8260B

NAPL = non-aqueous phase liquid (thickness measured in feet)

TAME = tertiary amyl methyl ether

TBA = tertiary butyl alcohol

TPHg = total petroleum hydrocarbons as gasoline [called Gasoline Range Organics (C4-C12) in laboratory reports]

TPHd = total petroleum hydrocarbons as diesel [called Petroleum Hydrocarbons C10-C28 in laboratory reports]

TPHo = total petroleum hydrocarbons as oil [called Petroleum Hydrocarbons C24-C40 in laboratory reports]

J = estimated value between method detection limit and practical quantitation limit

< = not detected at or above stated laboratory reporting limit

(c) = pre-purge sample taken at top of water column before well was purged

feet-MSL = feet above mean sea level

feet-TOC = feet below top of casing

ug/l = micrograms per liter

Environmental Resolutions, Inc. (ERI) became known as Cardno ERI on October 18, 2010

TABLE 4
CUMULATIVE BTEX AND FUEL OXYGENATES GROUNDWATER MONITORING RESULTS
FORMER EXXONMOBIL JALK FEE PROPERTY
10607 NORWALK BOULEVARD
SANTA FE SPRINGS, CALIFORNIA
CARDNO ERI 1155

Date	Well Elev (feet-MSL)	GW Depth (feet-TOC)	GW Elev (feet-MSL)	NAPL (feet)	Benzene (ug/l)	Toluene (ug/l)	Ethyl- benzene (ug/l)	Xylenes (ug/l)	MTBE (ug/l)	TPHg (ug/l)	TPHd (ug/l)	TPHo (ug/l)	EDB (ug/l)	EDC (ug/l)
Field Point MMW-03 Well Screen Interval (feet):														
6/6/2000 (a)	134.26	70.69	63.57	no	<0.50	<1.0	<1.0	<2.0	<1.0	<500	--	--	--	--
8/31/2000 (a)	134.26	70.67	63.59	no	<0.50	<1.0	<1.0	<2.0	1.9	<500	--	--	<0.50	--
11/28/2000 (a)	134.26	71.49	62.77	no	<0.50	<1.0	<1.0	<2.0	7	--	--	--	0.97	--
3/5/2001 (a)	134.26	71.30	62.96	no	<0.50	<1.0	<1.0	<2.0	7.6	--	--	--	--	--
6/12/2001 (a)	134.26	70.07	64.19	no	3.7	5.7	1.4	5.3	13	--	--	--	--	--
12/31/2001 (a)(b)				no	WELL ABANDONED									
Field Point MMW-04 Well Screen Interval (feet): 60-105														
6/6/2000 (a)	131.40	70.46	60.94	no	ND<0.50	ND<1.0	ND<1.0	ND<2.0	ND<1.0	ND<500	--	--	--	--
8/31/2000 (a)	131.40	70.58	60.82	no	ND<0.50	ND<1.0	ND<1.0	ND<2.0	ND<1.0	ND<500	--	--	--	--
11/28/2000 (a)	131.40	71.28	60.12	no	ND<0.50	ND<1.0	ND<1.0	ND<2.0	ND<1.0	ND<1.0	--	--	--	--
3/5/2001 (a)	131.40	71.02	60.38	no	ND<0.50	ND<1.0	ND<1.0	ND<2.0	ND<1.0	ND<1.0	--	--	--	--
6/12/2001 (a)	131.40	69.81	61.59	no	13	12	2.1	7.9	1.2	--	--	--	--	--
12/23/2003 (a)	131.40	78.38	53.02	no	ND<0.50	ND<1.0	ND<1.0	ND<2.0	ND<1.0	ND<1.0	--	--	--	--
12/21/2004 (a)	131.40	84.73	46.67	no	ND<0.50	ND<1.0	ND<1.0	ND<2.0	ND<1.0	ND<1.0	--	--	--	--
12/2/2005 (a)	131.40	79.01	52.39	no	ND<0.50	ND<1.0	ND<1.0	ND<2.0	ND<1.0	ND<1.0	--	--	--	--
12/19/2006 (a)	131.40	76.66	54.74	no	ND<0.50	0.54 J	ND<1.0	ND<1.0	ND<1.0	ND<1.0	--	--	--	--
12/21/2007 (a)	131.40	79.73	51.67	no	ND<0.50	ND<1.0	ND<1.0	ND<1.0	ND<1.0	ND<1.0	--	--	--	--
10/24/2008 (a)	131.40	84.13	47.27	no	ND<0.50	ND<1.0	ND<1.0	ND<1.0	ND<1.0	ND<1.0	--	--	--	--
9/22/2009 (a)	131.40	91.00	40.40	no	ND<0.50	ND<1.0	ND<1.0	ND<1.0	0.35 J	--	--	--	--	--
10/14/2010	131.40	94.25	37.15	no	<0.50	<0.50	<0.50	<0.50	<1.0	--	<1.0	<1.0	<1.0	<0.50
4/19/2011	131.40	91.75	39.65	no	0.29 J	<0.50	0.24 J	<0.50	0.38 J	--	<1.0	<1.0	3.3	--

TABLE 4
CUMULATIVE BTEX AND FUEL OXYGENATES GROUNDWATER MONITORING RESULTS
FORMER EXXONMOBIL JALK FEE PROPERTY
10607 NORWALK BOULEVARD
SANTA FE SPRINGS, CALIFORNIA
CARDNO ERI 1155

Date	Well Elev (feet-MSL)	GW Depth (feet-TOC)	GW Elev (feet-MSL)	NAPL (feet)	Benzene (ug/l)	Toluene (ug/l)	Ethyl- benzene (ug/l)	Xylenes (ug/l)	MTBE (ug/l)	TPHg (ug/l)	TPHd (ug/l)	TPHo (ug/l)	EDB (ug/l)	EDC (ug/l)
4/19/2011 D	131.40	91.75	39.65	no										
					DUPPLICATE SAMPLE INADVERTENTLY NOT TAKEN									
11/16/2011	131.40	86.13	45.27	no	0.41 J	1.0	0.30 J	<0.50	<1.0				<1.0	2.8
3/8/2012	131.40			no										
5/3/2012	131.40	84.10	47.30	no	1.79	<0.500	0.600	0.760	<1.00				<0.500	1.69
11/17/2012	133.14	86.59	46.55	no	<0.500	<0.500	<0.500	<0.500	<1.00	130	<1000	98.1 J	<0.500	1.26
Field Point	MMW-05	Well Screen Interval (feet): 61-106												
6/6/2000 (a)	133.38	71.79	61.59	no	ND<2.5	ND<5.0	ND<5.0	ND<10	ND<5.0	ND<500				
8/31/2000 (a)	133.38	71.86	61.52	no	ND<2.5	ND<5.0	ND<5	ND<10	ND<5	136				
11/28/2000(a)	133.38	72.58	60.80	no	ND<2.5	ND<5.0	ND<5	ND<10	ND<5	--				
3/5/2001 (a)	133.38	72.47	60.91	no	ND<2.5	ND<5.0	ND<5.0	ND<10	ND<5.0	--				
6/12/2001 (a)	133.38	71.29	62.09	no	1.3	2.3	ND<2.0	ND<4.0	ND<2.0	--				
12/23/2003(a)	133.38	79.72	53.66	no	ND<0.50	ND<1.0	ND<1.0	ND<1.0	ND<1.0	--				
12/21/2004(a)	133.38	86.02	47.36	no	ND<5.0	ND<10	ND<10	ND<10	ND<10	--				
12/2/2005 (a)	133.38	80.69	52.69	no	ND<0.50	ND<1.0	ND<1.0	ND<1.0	ND<1.0	--				
12/19/2006(a)	133.38	78.29	55.09	no	ND<0.50	0.64 J	ND<1.0	ND<1.0	ND<1.0	--				
12/21/2007(a)	133.38	80.94	52.44	no	ND<2.5#	ND<5.0	ND<5.0	ND<5.0	ND<5.0	--				
10/24/2008(a)	133.38	85.19	48.19	no	ND<2.5#	ND<5.0	ND<5.0	ND<5.0	ND<5.0	--				
9/22/2009 (a)	133.38	92.10	41.28	no	ND<0.50	ND<1.0	ND<1.0	ND<1.0	ND<1.0	--				
10/14/2010	133.38	96.85	36.53	no	9.3	0.96	1.1	2.4	0.89 J				<1.0	5.5
4/19/2011	133.38	95.05	38.33	no	0.53	<0.50	0.54	0.85	<1.0				<1.0	4.3
11/16/2011	133.38	89.24	44.14	no	0.29 J	<1.0	<1.0	<1.0	<2.0				<2.0	5.4
3/8/2012	133.38			no										
					NOT MEASURED OR SAMPLED									

TABLE 4
CUMULATIVE BTEX AND FUEL OXYGENATES GROUNDWATER MONITORING RESULTS
FORMER EXXONMOBIL JALK FEE PROPERTY
10607 NORWALK BOULEVARD
SANTA FE SPRINGS, CALIFORNIA
CARDNO ERI 1155

Date	Well Elev (feet-MSL)	GW Depth (feet-TOC)	GW Elev (feet-MSL)	NAPL (feet)	Benzene (ug/l)	Toluene (ug/l)	Ethyl- benzene (ug/l)	Xylenes (ug/l)	MTBE (ug/l)	TPHg (ug/l)	TPHd (ug/l)	TPHo (ug/l)	EDB (ug/l)	EDC (ug/l)
5/3/2012	133.38	85.80	47.58	no	2.71	<0.500	0.730	0.840	0.380 J				<0.500	5.58
11/16/2012	135.54	89.08	46.46	no	<0.500	<0.500	<0.500	<0.500	<1.00	285	<909	64.9 J	<0.500	4.15
Field Point MW6A Well Screen Interval (feet): 80-110														
4/19/2011	136.53	94.53	42.00	no	<5.0	<5.0	<5.0	<5.0	<10				<10	<5.0
11/16/2011	136.53	88.79	47.74	no	<2.5	<2.5	<2.5	<2.5	<5.0				<5.0	5.3
3/8/2012	136.53	87.04	49.49	no	GAUGE ONLY									
5/3/2012	136.53	86.90	49.63	no	<0.500	<0.500	<0.500	<0.500	0.440 J				<0.500	6.42
11/16/2012	136.53	88.52	48.01	no	<0.500	<0.500	<0.500	<0.500	0.408 J	250	<909	<909	<0.500	4.54
Field Point MW6B Well Screen Interval (feet): 130-140														
4/19/2011	136.54	93.89	42.65	no	0.83	<0.50	1.1	1.7	<1.0				<1.0	5.4
11/16/2011	136.54	88.06	48.48	no	2.5	5.8	1.3	1.6	<1.0				<1.0	5.1
3/8/2012	136.54	86.39	50.15	no	GAUGE ONLY									
5/3/2012	136.54	86.30	50.24	no	<0.500	<0.500	<0.500	<0.500	0.270 J				<0.500	6.46
11/16/2012	136.54	87.88	48.66	no	0.445 J	<0.500	<0.500	<0.500	<1.00	712	584 J	640 J	<0.500	4.40
Field Point MW6C Well Screen Interval (feet): 170-180														
4/19/2011	136.53	93.23	43.30	no	1.4	2.2	1.3	3.8	<1.0				<1.0	0.76
11/16/2011	136.53	87.38	49.15	no	5.8	14	3.4 J	3.6 J	<10				<10	<5.0
11/16/2011 D	136.53	87.38	49.15	no	3.6 J	9.2	2.1 J	<5.0	<10				<10	<5.0
3/8/2012 (d)	136.53			no	<0.500	<0.500	<0.500	<0.500					<0.500	1.63
3/8/2012 (c)	136.53			no	0.320 J	0.250 J	<0.500	<0.500					<0.500	<0.500
3/8/2012	136.53	85.74	50.79	no	0.980	0.840	0.340 J	0.930					<0.500	<0.500
5/3/2012	136.53	85.68	50.85	no	<0.500	<0.500	<0.500	<0.500	<1.00				<0.500	2.01

TABLE 4
CUMULATIVE BTEX AND FUEL OXYGENATES GROUNDWATER MONITORING RESULTS
FORMER EXXONMOBIL JALK FEE PROPERTY
10607 NORWALK BOULEVARD
SANTA FE SPRINGS, CALIFORNIA
CARDNO ERI 1155

Date	Well Elev (feet-MSL)	GW Depth (feet-TOC)	GW Elev (feet-MSL)	NAPL (feet)	Benzene (ug/l)	Toluene (ug/l)	Ethyl- benzene (ug/l)	Xylenes (ug/l)	MTBE (ug/l)	TPHg (ug/l)	TPHd (ug/l)	TPHo (ug/l)	EDB (ug/l)	EDC (ug/l)			
5/3/2012	D	136.53	85.68	50.85	no	DUPLICATE SAMPLE INADVERTANTLY NOT TAKEN											
11/16/2012	D	136.53	87.26	49.27	no	<0.500	<0.500	<0.500	<0.500	<1.00	184	704 J	385 J	<0.500	2.14		
11/16/2012		136.53	87.26	49.27	no	<0.500	<0.500	<0.500	<0.500	<1.00	198	574 J	705 J	<0.500	2.07		
Field Point MW7A Well Screen Interval (feet): 80-110																	
4/19/2011		138.22	94.64	43.58	no	<0.50	3.7	<0.50	<0.50	<1.0				<1.0	<3.0		
11/16/2011		138.22	88.89	49.33	no	0.32 J	5.7	<0.50	<0.50	0.39 J				<1.0	5.1		
3/8/2012		138.22	87.23	50.99	no	GAUGE ONLY											
5/3/2012		138.22	86.80	51.42	no	<0.500	<0.500	<0.500	<0.500	0.490 J				<0.500	5.95		
11/16/2012		138.22	88.64	49.58	no	<0.500	<0.500	<0.500	<0.500	<1.00	212	78.4 J	79.3 J	<0.500	3.66		
Field Point MW7B Well Screen Interval (feet): 130-140																	
4/19/2011		138.14	94.12	44.02	no	2.1	25	0.74	3.3	<1.0				<1.0	<2.2		
11/16/2011		138.14	88.28	49.86	no	4.6	25	1.3	4.3	<1.0				<1.0	3.2		
3/8/2012		138.14	86.61	51.23	no	GAUGE ONLY											
5/3/2012		138.14	86.30	51.84	no	0.490 J	0.320 J	<0.500	<0.500	0.320 J				<0.500	4.67		
11/16/2012		138.14	88.09	50.05	no	0.376 J	0.338 J	<0.500	<0.500	<1.00	208	562 J	366 J	<0.500	3.49		
Field Point MW7C Well Screen Interval (feet): 165-175																	
4/19/2011		138.22	94.26	43.96	no	2.1	35	0.65	2.9	<1.0				<1.0	0.34 J		
11/16/2011		138.22	88.41	49.81	no	3.2	13	0.80	2.5	<1.0				<1.0	<0.50		
3/8/2012		138.22	86.77	51.45	no	0.840	1.84	0.340 J	0.920					<0.500	<0.500		
3/8/2012	(c)	138.22			no	<0.500	<0.500	<0.500	<0.500					<0.500	1.10		
5/3/2012		138.22	85.70	52.52	no	<0.500	<0.500	<0.500	<0.500	<1.00				<0.500	<0.500		
11/16/2012		138.22	88.18	50.04	no	<0.500	<0.500	<0.500	<0.500	<1.00	<50.0	768 J	778 J	<0.500	0.240 J		
Field Point MW8A Well Screen Interval (feet): 85-115																	

TABLE 4
CUMULATIVE BTEX AND FUEL OXYGENATES GROUNDWATER MONITORING RESULTS
FORMER EXXONMOBIL JALK FEE PROPERTY
10607 NORWALK BOULEVARD
SANTA FE SPRINGS, CALIFORNIA
CARDNO ERI 1155

Date	Well Elev (feet-MSL)	GW Depth (feet-TOC)	GW Elev (feet-MSL)	NAPL (feet)	Benzene (ug/l)	Toluene (ug/l)	Ethyl- benzene (ug/l)	Xylenes (ug/l)	MTBE (ug/l)	TPHg (ug/l)	TPHd (ug/l)	TPHo (ug/l)	EDB (ug/l)	EDC (ug/l)
4/19/2011	137.66	94.53	43.13	no	0.33 J	0.42 J	48	1.1	<1.0				<1.0	<0.50
11/16/2011	137.66	89.61	48.05	no	3.1	1.2	16	3.7	<1.0				<1.0	2.2
3/8/2012	137.66	87.81	49.85	no	GAUGE ONLY									
5/3/2012	137.66	87.60	50.06	no	1.60	<0.500	99.3	<0.500	0.280 J				<0.500	<0.500
11/16/2012	137.66			no	NO PERMITTED ACCESS TO WELL									
Field Point MW8B		Well Screen Interval (feet): 130-140												
4/19/2011	137.70	94.38	43.32	no	0.66	0.90	6.5	1.7	<1.0				<1.0	0.57
11/16/2011	137.70	88.51	49.19	no	4.4	25	17	3.5	<1.0				<1.0	1.4
3/8/2012	137.70	86.84	50.86	no	GAUGE ONLY									
5/3/2012	137.70	86.80	50.90	no	0.540	<0.500	0.370 J	<0.500	<1.00				<0.500	<0.500
11/16/2012	137.70			no	NO PERMITTED ACCESS TO WELL									
Field Point MW8C		Well Screen Interval (feet): 150-160												
4/19/2011	137.73	94.36	43.37	no	0.33 J	1.4	3.9	1.3	<1.0				<1.0	<0.50 J
11/16/2011	137.73	88.54	49.19	no	4.8	25	11	4.1	<1.0				<1.0	1.3
3/8/2012	137.73	86.87	50.86	no	GAUGE ONLY									
5/3/2012	137.73	86.50	51.23	no	1.24	1.10	0.780	<0.500	<1.00				<0.500	<0.500
11/16/2012	137.73			no	NO PERMITTED ACCESS TO WELL									
Field Point MW9A		Well Screen Interval (feet): 80-110.5												
11/17/2012	135.14	88.19	46.95	no	<0.500	<0.500	<0.500	<0.500	0.693 J	193	59.8 J	97.2 J	<0.500	3.43
Field Point MW9B		Well Screen Interval (feet): 140-150												
11/17/2012	135.18	86.19	48.99	no	<0.500	<0.500	<0.500	<0.500	<1.00	208	232 J	305 J	<0.500	4.79
Field Point MW9C		Well Screen Interval (feet): 175-185												
11/17/2012	135.38	87.35	48.03	no	<0.500	<0.500	<0.500	<0.500	<1.00	72.5	125 J	179 J	<0.500	1.19

TABLE 4
CUMULATIVE BTEX AND FUEL OXYGENATES GROUNDWATER MONITORING RESULTS
FORMER EXXONMOBIL JALK FEE PROPERTY
10607 NORWALK BOULEVARD
SANTA FE SPRINGS, CALIFORNIA
CARDNO ERI 1155

Date	Well Elev (feet-MSL)	GW Depth (feet-TOC)	GW Elev (feet-MSL)	NAPL (feet)	Benzene (ug/l)	Toluene (ug/l)	Ethyl- benzene (ug/l)	Xylenes (ug/l)	MTBE (ug/l)	TPHg (ug/l)	TPHd (ug/l)	TPHo (ug/l)	EDB (ug/l)	EDC (ug/l)
Field Point	MW10A	Well Screen Interval (feet): 80-110												
11/16/2012	137.43	88.99	48.44	no	<0.500	<0.500	<0.500	<0.500	0.301 J	279	<909	59.5 J	<0.500	3.51
Field Point	MW10B	Well Screen Interval (feet): 140-150												
11/16/2012	137.46	88.01	49.45	no	<0.500	<0.500	<0.500	<0.500	<1.00	210	313 J	369 J	<0.500	3.33
Field Point	MW10C	Well Screen Interval (feet): 165-175												
11/16/2012	137.44	87.99	49.45	no	<0.500	<0.500	<0.500	<0.500	<1.00	168	210 J	241 J	<0.500	2.22
Field Point	TRIP BLANK	Well Screen Interval (feet):												
10/14/2010				no	<0.50	<0.50	<0.50	<0.50	<1.0				<1.0	<0.50
4/19/2011				no	<0.50	<0.50	<0.50	<0.50	<1.0				<1.0	<1.0
11/16/2011				no	<0.50	<0.50	<0.50	<0.50	<1.0				<1.0	<0.50
3/8/2012				no	<0.500	<0.500	<0.500	<0.500					<0.500	<0.500
5/3/2012				no	<0.500	<0.500	<0.500	<0.500	<1.00				<0.500	<0.500
11/16/2012				no	<0.500	<0.500	<0.500	<0.500	<0.500				<0.500	<0.500
11/17/2012				no	<0.500	<0.500	<0.500	<0.500	<1.00	<50.0			<0.500	<0.500

TABLE 4
CUMULATIVE BTEX AND FUEL OXYGENATES GROUNDWATER MONITORING RESULTS
FORMER EXXONMOBIL JALK FEE PROPERTY
10607 NORWALK BOULEVARD
SANTA FE SPRINGS, CALIFORNIA
CARDNO ERI 1155

Explanation:

BTEX = Benzene, toluene, ethylbenzene, and total xylenes

DUP = duplicate sample

ELEV = elevation

EPA = Environmental Protection Agency

GW = groundwater

feet-MSL = feet above mean sea level

feet-TOC = feet below top of casing

DIPE = di-isopropyl ether

EDB = 1,2-dibromoethane

EDC = 1,2-dichloroethane

ETBE = ethyl tertiary butyl ether

J = estimated value between method detection limit and practical quantitation limit

TAME = tertiary amyl methyl ether

TBA = tertiary butyl alcohol

TPHg = total petroleum hydrocarbons as gasoline [called Gasoline Range Organics (C4-C12) in laboratory reports]

TPHd = total petroleum hydrocarbons as diesel [called Petroleum Hydrocarbons C10-C28 in laboratory reports]

TPHo = total petroleum hydrocarbons as oil [called Petroleum Hydrocarbons C24-C40 in laboratory reports]

MTBE = methyl tertiary butyl ether

MTBE analyzed by EPA Method 8260B.

NAPL = non-aqueous phase liquid (thickness measured in feet)

ND = not detected at or above stated laboratory reporting limit

< = not detected at or above stated laboratory reporting limit

ug/l = micrograms per liter

(a) = values supplied by previous consultant

(b) = date of well abandonment not known

Environmental Resolutions, Inc. (ERI) became known as Cardno ERI on October 18, 2010

(c) = discrete sample taken at bottom of water column before well was purged

(d) = pre-purge sample taken at top of water column before well was purged

TestAmerica

THE LEADER IN ENVIRONMENTAL TESTING

ANALYTICAL REPORT

TestAmerica Laboratories, Inc.

TestAmerica Nashville

2960 Foster Creighton Drive

Nashville, TN 37204

Tel: (615)726-0177

TestAmerica Job ID: 490-12512-1

TestAmerica Sample Delivery Group: 08115513

Client Project/Site: Former Jalk Fee

For:

Cardno ERI

4572 Telephone Road #916

Ventura, California 93003

Attn: Mr. Alex Fuentes



Authorized for release by:

12/4/2012 3:26:34 PM

Leah Klingensmith

Senior Project Manager

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The test results in this report meet all 2003 NELAC and 2009 TNI requirements for accredited parameters, exceptions are noted in this report. This report may not be reproduced except in full, and with written approval from the laboratory. For questions please contact the Project Manager at the e-mail address or telephone number listed on this page.

This report has been electronically signed and authorized by the signatory. Electronic signature is intended to be the legally binding equivalent of a traditionally handwritten signature.

Results relate only to the items tested and the sample(s) as received by the laboratory.

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Sample Summary

Client: Cardno ERI

Project/Site: Former Jalk Fee

TestAmerica Job ID: 490-12512-1

SDG: 08115513

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
490-12512-1	W-88-MMW-04	Ground Water	11/17/12 08:52	11/24/12 08:10
490-12512-2	W-90-MW9A	Ground Water	11/17/12 06:11	11/24/12 08:10
490-12512-3	W-88-MW9B	Ground Water	11/17/12 07:02	11/24/12 08:10
490-12512-4	W-107-MW9C	Ground Water	11/17/12 08:16	11/24/12 08:10
490-12512-5	QCTB	Water	11/17/12 06:00	11/24/12 08:10

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TestAmerica Nashville

Case Narrative

Client: Cardno ERI
Project/Site: Former Jalk Fee

TestAmerica Job ID: 490-12512-1
SDG: 08115513

Job ID: 490-12512-1

Laboratory: TestAmerica Nashville

Narrative

Job Narrative 490-12512-1

Comments

500mL sample volumes were submitted for the DRO/ORO analysis which yielded elevated reporting limits.

Receipt

The samples were received on 11/24/2012 8:10 AM; the samples arrived in good condition, properly preserved and, where required, on ice. The temperatures of the 3 coolers at receipt time were 0.1° C, 1.3° C and 3.2° C.

GC/MS VOA

Method(s) 8260B: The %RPD of the laboratory control sample (LCS) and laboratory control standard duplicate (LCSD) for preparation batch 40097 exceeded control limits for the following analytes: cis-1,3-Dichloropropene.

Method(s) 8260B: The method blank for batch 40097 contained Hexachlorobutadiene above the method detection limit. This target analyte concentration was less than the reporting limit (RL); therefore, re-extraction and/or re-analysis of samples was not performed.

Method(s) 8260B: The method blank for batch 40239 contained Hexachlorobutadiene, Methylene Chloride above the method detection limit. This target analyte concentration was less than the reporting limit (RL); therefore, re-extraction and/or re-analysis of samples was not performed.

Method(s) 8260B: Insufficient sample volume was available to perform a matrix spike/matrix spike duplicate (MS/MSD) associated with batches 40239, 40427.

Method(s) 8260B: The laboratory control sample (LCS) and / or laboratory control sample duplicate (LCSD) for batch 40427 exceeded control limits for the following analytes: tert-butylbenzene, sec-butylbenzene, 135-Trimethylbenzene, 124-Trimethylbenzene. These analytes were biased high in the LCS and were not detected in the associated samples; therefore, the data have been reported.

Method(s) 8260B: The %RPD of the laboratory control sample (LCS) and laboratory control standard duplicate (LCSD) for preparation batch 40427 exceeded control limits for the following analytes: sec-butylbenzene, tert-butylbenzene, 135-trimethylbenzene, 124-trimethylbenzene, 4-chlorotoluene, bromobenzene, 2-chlorotoluene, trans-1,3-Dichloropropene.

No other analytical or quality issues were noted.

GC VOA

Method(s) 8015B GRO LL: Insufficient sample volume was available to perform batch matrix spike/matrix spike duplicate (MS/MSD) associated with batch 39012. The laboratory control sample (LCS) was performed in duplicate to provide precision data for this batch.

No other analytical or quality issues were noted.

GC Semi VOA

Method(s) 8015B: Insufficient sample volume was available to perform a matrix spike/matrix spike duplicate (MS/MSD) associated with batch 38678.

No other analytical or quality issues were noted.

Organic Prep

No analytical or quality issues were noted.

VOA Prep

No analytical or quality issues were noted.

Definitions/Glossary

Client: Cardno ERI
Project/Site: Former Jalk Fee

TestAmerica Job ID: 490-12512-1
SDG: 08115513

Qualifiers

GC/MS VOA

Qualifier	Qualifier Description
U	Indicates the analyte was analyzed for but not detected.
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.
*	RPD of the LCS and LCSD exceeds the control limits
B	Compound was found in the blank and sample.
E	Result exceeded calibration range.
*	LCS or LCSD exceeds the control limits

GC VOA

Qualifier	Qualifier Description
U	Indicates the analyte was analyzed for but not detected.

GC Semi VOA

Qualifier	Qualifier Description
U	Indicates the analyte was analyzed for but not detected.
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.

Glossary

Abbreviation

These commonly used abbreviations may or may not be present in this report.

✉	Listed under the "D" column to designate that the result is reported on a dry weight basis
%R	Percent Recovery
CNF	Contains no Free Liquid
DER	Duplicate error ratio (normalized absolute difference)
DL, RA, RE, IN	Indicates a Dilution, Reanalysis, Re-extraction, or additional Initial metals/anion analysis of the sample
DLC	Decision level concentration
EDL	Estimated Detection Limit
EPA	United States Environmental Protection Agency
MDA	Minimum detectable activity
MDC	Minimum detectable concentration
MDL	Method Detection Limit
ML	Minimum Level (Dioxin)
ND	Not detected at the reporting limit (or MDL or EDL if shown)
PQL	Practical Quantitation Limit
QC	Quality Control
RER	Relative error ratio
RL	Reporting Limit or Requested Limit (Radiochemistry)
RPD	Relative Percent Difference, a measure of the relative difference between two points
TEF	Toxicity Equivalent Factor (Dioxin)
TEQ	Toxicity Equivalent Quotient (Dioxin)

Client Sample Results

Client: Cardno ERI
Project/Site: Former Jalk Fee

TestAmerica Job ID: 490-12512-1
SDG: 08115513

Client Sample ID: W-88-MMW-04

Date Collected: 11/17/12 08:52

Date Received: 11/24/12 08:10

Lab Sample ID: 490-12512-1

Matrix: Ground Water

Method: 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.500	U	0.500	0.200	ug/L			11/30/12 14:55	1
Toluene	<0.500	U	0.500	0.170	ug/L			11/30/12 14:55	1
Ethylbenzene	<0.500	U	0.500	0.190	ug/L			11/30/12 14:55	1
Xylenes, Total	<0.500	U	0.500	0.180	ug/L			11/30/12 14:55	1
Methyl tert-butyl ether	<1.00	U	1.00	0.120	ug/L			11/30/12 14:55	1
1,2-Dibromoethane (EDB)	<0.500	U	0.500	0.140	ug/L			11/30/12 14:55	1
1,2-Dichloroethane	1.26		0.500	0.200	ug/L			11/30/12 14:55	1
1,1,1,2-Tetrachloroethane	<0.500	U	0.500	0.150	ug/L			11/30/12 14:55	1
1,1,1-Trichloroethane	0.267 J		0.500	0.190	ug/L			11/30/12 14:55	1
1,1,2,2-Tetrachloroethane	<0.500	U	0.500	0.190	ug/L			11/30/12 14:55	1
1,1,2-Trichloroethane	<0.500	U	0.500	0.190	ug/L			11/30/12 14:55	1
1,1-Dichloroethane	12.8		0.500	0.240	ug/L			11/30/12 14:55	1
1,1,2-Trichloro-1,2,2-trifluoroethane	9.11		1.00	0.330	ug/L			11/30/12 14:55	1
1,1-Dichloroethene	74.3		0.500	0.250	ug/L			11/30/12 14:55	1
1,1-Dichloropropene	<0.500	U	0.500	0.200	ug/L			11/30/12 14:55	1
1,2,3-Trichlorobenzene	<0.500	U	0.500	0.230	ug/L			11/30/12 14:55	1
1,2,3-Trichloropropane	<0.500	U	0.500	0.230	ug/L			11/30/12 14:55	1
1,2,4-Trichlorobenzene	<0.500	U	0.500	0.150	ug/L			11/30/12 14:55	1
1,2,4-Trimethylbenzene	0.244 J		0.500	0.170	ug/L			11/30/12 14:55	1
1,2-Dibromo-3-Chloropropane	<5.00	U	5.00	4.21	ug/L			11/30/12 14:55	1
1,2-Dichlorobenzene	<0.500	U	0.500	0.190	ug/L			11/30/12 14:55	1
1,2-Dichloropropane	1.95		0.500	0.250	ug/L			11/30/12 14:55	1
1,3,5-Trimethylbenzene	<0.500	U	0.500	0.150	ug/L			11/30/12 14:55	1
1,3-Dichlorobenzene	<0.500	U	0.500	0.180	ug/L			11/30/12 14:55	1
1,3-Dichloropropane	<0.500	U	0.500	0.190	ug/L			11/30/12 14:55	1
1,4-Dichlorobenzene	<0.500	U	0.500	0.130	ug/L			11/30/12 14:55	1
2,2-Dichloropropane	<0.500	U	0.500	0.160	ug/L			11/30/12 14:55	1
2-Butanone (MEK)	<50.0	U	50.0	2.64	ug/L			11/30/12 14:55	1
2-Chlorotoluene	<0.500	U	0.500	0.180	ug/L			11/30/12 14:55	1
2-Hexanone	<10.0	U	10.0	1.28	ug/L			11/30/12 14:55	1
4-Chlorotoluene	<0.500	U	0.500	0.170	ug/L			11/30/12 14:55	1
4-Methyl-2-pentanone (MIBK)	<10.0	U	10.0	0.810	ug/L			11/30/12 14:55	1
Acetone	<50.0	U	50.0	2.66	ug/L			11/30/12 14:55	1
Bromobenzene	<0.500	U	0.500	0.210	ug/L			11/30/12 14:55	1
Chlorobromomethane	<0.500	U	0.500	0.330	ug/L			11/30/12 14:55	1
Dichlorobromomethane	<0.500	U	0.500	0.110	ug/L			11/30/12 14:55	1
Bromoform	<0.500	U	0.500	0.290	ug/L			11/30/12 14:55	1
Bromomethane	<0.500	U	0.500	0.350	ug/L			11/30/12 14:55	1
Carbon disulfide	<0.500	U	0.500	0.220	ug/L			11/30/12 14:55	1
Carbon tetrachloride	<0.500	U	0.500	0.180	ug/L			11/30/12 14:55	1
Chlorobenzene	<0.500	U	0.500	0.180	ug/L			11/30/12 14:55	1
Chlorodibromomethane	<0.500	U	0.500	0.250	ug/L			11/30/12 14:55	1
Chloroethane	<0.500	U	0.500	0.360	ug/L			11/30/12 14:55	1
Chloroform	1.81		0.500	0.230	ug/L			11/30/12 14:55	1
Chloromethane	<0.500	U	0.500	0.300	ug/L			11/30/12 14:55	1
cis-1,2-Dichloroethene	27.8		0.500	0.210	ug/L			11/30/12 14:55	1
cis-1,3-Dichloropropene	<0.500	U *	0.500	0.120	ug/L			11/30/12 14:55	1
Dibromomethane	<0.500	U	0.500	0.310	ug/L			11/30/12 14:55	1

TestAmerica Nashville

Client Sample Results

Client: Cardno ERI
Project/Site: Former Jalk Fee

TestAmerica Job ID: 490-12512-1
SDG: 08115513

Client Sample ID: W-88-MMW-04

Date Collected: 11/17/12 08:52
Date Received: 11/24/12 08:10

Lab Sample ID: 490-12512-1
Matrix: Ground Water

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Dichlorodifluoromethane	<0.500	U	0.500	0.440	ug/L			11/30/12 14:55	1
Hexachlorobutadiene	<1.00	U	1.00	0.210	ug/L			11/30/12 14:55	1
Isopropylbenzene	<1.00	U	1.00	0.170	ug/L			11/30/12 14:55	1
Methylene Chloride	<5.00	U	5.00	0.160	ug/L			11/30/12 14:55	1
Naphthalene	<5.00	U	5.00	0.210	ug/L			11/30/12 14:55	1
n-Butylbenzene	<0.500	U	0.500	0.240	ug/L			11/30/12 14:55	1
N-Propylbenzene	<0.500	U	0.500	0.170	ug/L			11/30/12 14:55	1
4-Isopropyltoluene	<0.500	U	0.500	0.170	ug/L			11/30/12 14:55	1
Styrene	<0.500	U	0.500	0.200	ug/L			11/30/12 14:55	1
sec-Butylbenzene	<0.500	U	0.500	0.170	ug/L			11/30/12 14:55	1
tert-Butylbenzene	<0.500	U	0.500	0.170	ug/L			11/30/12 14:55	1
Tetrachloroethene	73.0		0.500	0.250	ug/L			11/30/12 14:55	1
trans-1,2-Dichloroethene	0.283	J	0.500	0.230	ug/L			11/30/12 14:55	1
trans-1,3-Dichloropropene	<0.500	U	0.500	0.110	ug/L			11/30/12 14:55	1
Trichloroethene	52.5		0.500	0.200	ug/L			11/30/12 14:55	1
Trichlorofluoromethane	4.26		0.500	0.210	ug/L			11/30/12 14:55	1
Vinyl chloride	<0.500	U	0.500	0.180	ug/L			11/30/12 14:55	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	89		70 - 130					11/30/12 14:55	1
4-Bromofluorobenzene (Surr)	101		70 - 130					11/30/12 14:55	1
Dibromofluoromethane (Surr)	98		70 - 130					11/30/12 14:55	1
Toluene-d8 (Surr)	102		70 - 130					11/30/12 14:55	1

Method: 8015B GRO LL - Gasoline Range Organics - (GC)

Analyte	Result	Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
C4-C12	130		50.0	38.0	ug/L			11/27/12 22:34	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
a,a,a-Trifluorotoluene	87		50 - 150					11/27/12 22:34	1

Method: 8015B - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics [C10-C28]	<1000	U	1000	56.0	ug/L		11/24/12 16:27	11/27/12 22:25	1
ORO C24-C40	98.1	J	1000	56.0	ug/L		11/24/12 16:27	11/27/12 22:25	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
o-Terphenyl (Surr)	89		50 - 150				11/24/12 16:27	11/27/12 22:25	1

TestAmerica Nashville

Client Sample Results

Client: Cardno ERI

Project/Site: Former Jalk Fee

TestAmerica Job ID: 490-12512-1

SDG: 08115513

Client Sample ID: W-90-MW9A

Date Collected: 11/17/12 06:11

Date Received: 11/24/12 08:10

Lab Sample ID: 490-12512-2

Matrix: Ground Water

Method: 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.500	U	0.500	0.200	ug/L			11/30/12 15:26	1
Toluene	<0.500	U	0.500	0.170	ug/L			11/30/12 15:26	1
Ethylbenzene	<0.500	U	0.500	0.190	ug/L			11/30/12 15:26	1
Xylenes, Total	<0.500	U	0.500	0.180	ug/L			11/30/12 15:26	1
Methyl tert-butyl ether	0.693	J	1.00	0.120	ug/L			11/30/12 15:26	1
1,2-Dibromoethane (EDB)	<0.500	U	0.500	0.140	ug/L			11/30/12 15:26	1
1,2-Dichloroethane	3.43		0.500	0.200	ug/L			11/30/12 15:26	1
1,1,1,2-Tetrachloroethane	<0.500	U	0.500	0.150	ug/L			11/30/12 15:26	1
1,1,1-Trichloroethane	0.707		0.500	0.190	ug/L			11/30/12 15:26	1
1,1,2,2-Tetrachloroethane	<0.500	U	0.500	0.190	ug/L			11/30/12 15:26	1
1,1,2-Trichloroethane	<0.500	U	0.500	0.190	ug/L			11/30/12 15:26	1
1,1-Dichloroethane	22.2		0.500	0.240	ug/L			11/30/12 15:26	1
1,1,2-Trichloro-1,2,2-trifluoroetha ne	12.8		1.00	0.330	ug/L			11/30/12 15:26	1
1,1-Dichloroethene	82.2		0.500	0.250	ug/L			11/30/12 15:26	1
1,1-Dichloropropene	<0.500	U	0.500	0.200	ug/L			11/30/12 15:26	1
1,2,3-Trichlorobenzene	<0.500	U	0.500	0.230	ug/L			11/30/12 15:26	1
1,2,3-Trichloropropane	<0.500	U	0.500	0.230	ug/L			11/30/12 15:26	1
1,2,4-Trichlorobenzene	<0.500	U	0.500	0.150	ug/L			11/30/12 15:26	1
1,2,4-Trimethylbenzene	<0.500	U	0.500	0.170	ug/L			11/30/12 15:26	1
1,2-Dibromo-3-Chloropropane	<5.00	U	5.00	4.21	ug/L			11/30/12 15:26	1
1,2-Dichlorobenzene	<0.500	U	0.500	0.190	ug/L			11/30/12 15:26	1
1,2-Dichloropropane	0.510		0.500	0.250	ug/L			11/30/12 15:26	1
1,3,5-Trimethylbenzene	<0.500	U	0.500	0.150	ug/L			11/30/12 15:26	1
1,3-Dichlorobenzene	<0.500	U	0.500	0.180	ug/L			11/30/12 15:26	1
1,3-Dichloropropane	<0.500	U	0.500	0.190	ug/L			11/30/12 15:26	1
1,4-Dichlorobenzene	<0.500	U	0.500	0.130	ug/L			11/30/12 15:26	1
2,2-Dichloropropane	<0.500	U	0.500	0.160	ug/L			11/30/12 15:26	1
2-Butanone (MEK)	<50.0	U	50.0	2.64	ug/L			11/30/12 15:26	1
2-Chlorotoluene	<0.500	U	0.500	0.180	ug/L			11/30/12 15:26	1
2-Hexanone	<10.0	U	10.0	1.28	ug/L			11/30/12 15:26	1
4-Chlorotoluene	<0.500	U	0.500	0.170	ug/L			11/30/12 15:26	1
4-Methyl-2-pentanone (MIBK)	<10.0	U	10.0	0.810	ug/L			11/30/12 15:26	1
Acetone	<50.0	U	50.0	2.66	ug/L			11/30/12 15:26	1
Bromobenzene	<0.500	U	0.500	0.210	ug/L			11/30/12 15:26	1
Chlorobromomethane	<0.500	U	0.500	0.330	ug/L			11/30/12 15:26	1
Dichlorobromomethane	<0.500	U	0.500	0.110	ug/L			11/30/12 15:26	1
Bromoform	<0.500	U	0.500	0.290	ug/L			11/30/12 15:26	1
Bromomethane	<0.500	U	0.500	0.350	ug/L			11/30/12 15:26	1
Carbon disulfide	<0.500	U	0.500	0.220	ug/L			11/30/12 15:26	1
Carbon tetrachloride	<0.500	U	0.500	0.180	ug/L			11/30/12 15:26	1
Chlorobenzene	<0.500	U	0.500	0.180	ug/L			11/30/12 15:26	1
Chlorodibromomethane	<0.500	U	0.500	0.250	ug/L			11/30/12 15:26	1
Chloroethane	<0.500	U	0.500	0.360	ug/L			11/30/12 15:26	1
Chloroform	4.30		0.500	0.230	ug/L			11/30/12 15:26	1
Chloromethane	<0.500	U	0.500	0.300	ug/L			11/30/12 15:26	1
cis-1,2-Dichloroethene	42.1		0.500	0.210	ug/L			11/30/12 15:26	1
cis-1,3-Dichloropropene	<0.500	U *	0.500	0.120	ug/L			11/30/12 15:26	1
Dibromomethane	<0.500	U	0.500	0.310	ug/L			11/30/12 15:26	1

TestAmerica Nashville

Client Sample Results

Client: Cardno ERI
Project/Site: Former Jalk Fee

TestAmerica Job ID: 490-12512-1
SDG: 08115513

Client Sample ID: W-90-MW9A

Lab Sample ID: 490-12512-2

Date Collected: 11/17/12 06:11
Date Received: 11/24/12 08:10

Matrix: Ground Water

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Dichlorodifluoromethane	<0.500	U	0.500	0.440	ug/L			11/30/12 15:26	1
Hexachlorobutadiene	<1.00	U	1.00	0.210	ug/L			11/30/12 15:26	1
Isopropylbenzene	<1.00	U	1.00	0.170	ug/L			11/30/12 15:26	1
Methylene Chloride	<5.00	U	5.00	0.160	ug/L			11/30/12 15:26	1
Naphthalene	<5.00	U	5.00	0.210	ug/L			11/30/12 15:26	1
n-Butylbenzene	<0.500	U	0.500	0.240	ug/L			11/30/12 15:26	1
N-Propylbenzene	<0.500	U	0.500	0.170	ug/L			11/30/12 15:26	1
4-Isopropyltoluene	<0.500	U	0.500	0.170	ug/L			11/30/12 15:26	1
Styrene	<0.500	U	0.500	0.200	ug/L			11/30/12 15:26	1
sec-Butylbenzene	<0.500	U	0.500	0.170	ug/L			11/30/12 15:26	1
tert-Butylbenzene	<0.500	U	0.500	0.170	ug/L			11/30/12 15:26	1
Tetrachloroethene	259		5.00	2.50	ug/L			12/01/12 09:44	10
trans-1,2-Dichloroethene	<0.500	U	0.500	0.230	ug/L			11/30/12 15:26	1
trans-1,3-Dichloropropene	<0.500	U	0.500	0.110	ug/L			11/30/12 15:26	1
Trichloroethene	75.5		0.500	0.200	ug/L			11/30/12 15:26	1
Trichlorofluoromethane	5.09		0.500	0.210	ug/L			11/30/12 15:26	1
Vinyl chloride	<0.500	U	0.500	0.180	ug/L			11/30/12 15:26	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	90		70 - 130		11/30/12 15:26	1
1,2-Dichloroethane-d4 (Surr)	89		70 - 130		12/01/12 09:44	10
4-Bromofluorobenzene (Surr)	99		70 - 130		11/30/12 15:26	1
4-Bromofluorobenzene (Surr)	100		70 - 130		12/01/12 09:44	10
Dibromofluoromethane (Surr)	98		70 - 130		11/30/12 15:26	1
Dibromofluoromethane (Surr)	98		70 - 130		12/01/12 09:44	10
Toluene-d8 (Surr)	102		70 - 130		11/30/12 15:26	1
Toluene-d8 (Surr)	102		70 - 130		12/01/12 09:44	10

Method: 8015B GRO LL - Gasoline Range Organics - (GC)

Analyte	Result	Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
C4-C12	193		50.0	38.0	ug/L			11/27/12 23:04	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
a,a,a-Trifluorotoluene	89		50 - 150					11/27/12 23:04	1

Method: 8015B - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics [C10-C28]	59.8	J	1000	56.0	ug/L		11/24/12 16:27	11/27/12 22:44	1
ORO C24-C40	97.2	J	1000	56.0	ug/L		11/24/12 16:27	11/27/12 22:44	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
o-Terphenyl (Surr)	88		50 - 150				11/24/12 16:27	11/27/12 22:44	1

TestAmerica Nashville

Client Sample Results

Client: Cardno ERI

Project/Site: Former Jalk Fee

TestAmerica Job ID: 490-12512-1

SDG: 08115513

Client Sample ID: W-88-MW9B

Date Collected: 11/17/12 07:02

Date Received: 11/24/12 08:10

Lab Sample ID: 490-12512-3

Matrix: Ground Water

Method: 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.500	U	0.500	0.200	ug/L			11/30/12 15:57	1
Toluene	<0.500	U	0.500	0.170	ug/L			11/30/12 15:57	1
Ethylbenzene	<0.500	U	0.500	0.190	ug/L			11/30/12 15:57	1
Xylenes, Total	<0.500	U	0.500	0.180	ug/L			11/30/12 15:57	1
Methyl tert-butyl ether	<1.00	U	1.00	0.120	ug/L			11/30/12 15:57	1
1,2-Dibromoethane (EDB)	<0.500	U	0.500	0.140	ug/L			11/30/12 15:57	1
1,2-Dichloroethane	4.79		0.500	0.200	ug/L			11/30/12 15:57	1
1,1,1,2-Tetrachloroethane	<0.500	U	0.500	0.150	ug/L			11/30/12 15:57	1
1,1,1-Trichloroethane	<0.500	U	0.500	0.190	ug/L			11/30/12 15:57	1
1,1,2,2-Tetrachloroethane	<0.500	U	0.500	0.190	ug/L			11/30/12 15:57	1
1,1,2-Trichloroethane	<0.500	U	0.500	0.190	ug/L			11/30/12 15:57	1
1,1-Dichloroethane	24.9		0.500	0.240	ug/L			11/30/12 15:57	1
1,1,2-Trichloro-1,2,2-trifluoroetha ne	2.97		1.00	0.330	ug/L			11/30/12 15:57	1
1,1-Dichloroethene	168		0.500	0.250	ug/L			11/30/12 15:57	1
1,1-Dichloropropene	<0.500	U	0.500	0.200	ug/L			11/30/12 15:57	1
1,2,3-Trichlorobenzene	<0.500	U	0.500	0.230	ug/L			11/30/12 15:57	1
1,2,3-Trichloropropane	<0.500	U	0.500	0.230	ug/L			11/30/12 15:57	1
1,2,4-Trichlorobenzene	<0.500	U	0.500	0.150	ug/L			11/30/12 15:57	1
1,2,4-Trimethylbenzene	<0.500	U	0.500	0.170	ug/L			11/30/12 15:57	1
1,2-Dibromo-3-Chloropropane	<5.00	U	5.00	4.21	ug/L			11/30/12 15:57	1
1,2-Dichlorobenzene	<0.500	U	0.500	0.190	ug/L			11/30/12 15:57	1
1,2-Dichloropropane	<0.500	U	0.500	0.250	ug/L			11/30/12 15:57	1
1,3,5-Trimethylbenzene	<0.500	U	0.500	0.150	ug/L			11/30/12 15:57	1
1,3-Dichlorobenzene	<0.500	U	0.500	0.180	ug/L			11/30/12 15:57	1
1,3-Dichloropropane	<0.500	U	0.500	0.190	ug/L			11/30/12 15:57	1
1,4-Dichlorobenzene	<0.500	U	0.500	0.130	ug/L			11/30/12 15:57	1
2,2-Dichloropropane	<0.500	U	0.500	0.160	ug/L			11/30/12 15:57	1
2-Butanone (MEK)	<50.0	U	50.0	2.64	ug/L			11/30/12 15:57	1
2-Chlorotoluene	<0.500	U	0.500	0.180	ug/L			11/30/12 15:57	1
2-Hexanone	<10.0	U	10.0	1.28	ug/L			11/30/12 15:57	1
4-Chlorotoluene	<0.500	U	0.500	0.170	ug/L			11/30/12 15:57	1
4-Methyl-2-pentanone (MIBK)	<10.0	U	10.0	0.810	ug/L			11/30/12 15:57	1
Acetone	<50.0	U	50.0	2.66	ug/L			11/30/12 15:57	1
Bromobenzene	<0.500	U	0.500	0.210	ug/L			11/30/12 15:57	1
Chlorobromomethane	<0.500	U	0.500	0.330	ug/L			11/30/12 15:57	1
Dichlorobromomethane	<0.500	U	0.500	0.110	ug/L			11/30/12 15:57	1
Bromoform	<0.500	U	0.500	0.290	ug/L			11/30/12 15:57	1
Bromomethane	<0.500	U	0.500	0.350	ug/L			11/30/12 15:57	1
Carbon disulfide	<0.500	U	0.500	0.220	ug/L			11/30/12 15:57	1
Carbon tetrachloride	<0.500	U	0.500	0.180	ug/L			11/30/12 15:57	1
Chlorobenzene	<0.500	U	0.500	0.180	ug/L			11/30/12 15:57	1
Chlorodibromomethane	<0.500	U	0.500	0.250	ug/L			11/30/12 15:57	1
Chloroethane	<0.500	U	0.500	0.360	ug/L			11/30/12 15:57	1
Chloroform	0.380	J	0.500	0.230	ug/L			11/30/12 15:57	1
Chloromethane	<0.500	U	0.500	0.300	ug/L			11/30/12 15:57	1
cis-1,2-Dichloroethene	57.7		0.500	0.210	ug/L			11/30/12 15:57	1
cis-1,3-Dichloropropene	<0.500	U *	0.500	0.120	ug/L			11/30/12 15:57	1
Dibromomethane	<0.500	U	0.500	0.310	ug/L			11/30/12 15:57	1

TestAmerica Nashville

Client Sample Results

Client: Cardno ERI
Project/Site: Former Jalk Fee

TestAmerica Job ID: 490-12512-1
SDG: 08115513

Client Sample ID: W-88-MW9B

Lab Sample ID: 490-12512-3

Date Collected: 11/17/12 07:02
Date Received: 11/24/12 08:10

Matrix: Ground Water

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Dichlorodifluoromethane	<0.500	U	0.500	0.440	ug/L			11/30/12 15:57	1
Hexachlorobutadiene	<1.00	U	1.00	0.210	ug/L			11/30/12 15:57	1
Isopropylbenzene	<1.00	U	1.00	0.170	ug/L			11/30/12 15:57	1
Methylene Chloride	<5.00	U	5.00	0.160	ug/L			11/30/12 15:57	1
Naphthalene	<5.00	U	5.00	0.210	ug/L			11/30/12 15:57	1
n-Butylbenzene	<0.500	U	0.500	0.240	ug/L			11/30/12 15:57	1
N-Propylbenzene	<0.500	U	0.500	0.170	ug/L			11/30/12 15:57	1
4-Isopropyltoluene	<0.500	U	0.500	0.170	ug/L			11/30/12 15:57	1
Styrene	<0.500	U	0.500	0.200	ug/L			11/30/12 15:57	1
sec-Butylbenzene	<0.500	U	0.500	0.170	ug/L			11/30/12 15:57	1
tert-Butylbenzene	<0.500	U	0.500	0.170	ug/L			11/30/12 15:57	1
Tetrachloroethene	155		0.500	0.250	ug/L			11/30/12 15:57	1
trans-1,2-Dichloroethene	0.665		0.500	0.230	ug/L			11/30/12 15:57	1
trans-1,3-Dichloropropene	<0.500	U	0.500	0.110	ug/L			11/30/12 15:57	1
Trichloroethene	107		0.500	0.200	ug/L			11/30/12 15:57	1
Trichlorofluoromethane	<0.500	U	0.500	0.210	ug/L			11/30/12 15:57	1
Vinyl chloride	<0.500	U	0.500	0.180	ug/L			11/30/12 15:57	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	89		70 - 130					11/30/12 15:57	1
4-Bromofluorobenzene (Surr)	101		70 - 130					11/30/12 15:57	1
Dibromofluoromethane (Surr)	97		70 - 130					11/30/12 15:57	1
Toluene-d8 (Surr)	102		70 - 130					11/30/12 15:57	1

Method: 8015B GRO LL - Gasoline Range Organics - (GC)

Analyte	Result	Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
C4-C12	208		50.0	38.0	ug/L			11/27/12 23:35	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
a,a,a-Trifluorotoluene	91		50 - 150					11/27/12 23:35	1

Method: 8015B - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics [C10-C28]	232	J	1000	56.0	ug/L		11/24/12 16:27	11/27/12 23:03	1
ORO C24-C40	305	J	1000	56.0	ug/L		11/24/12 16:27	11/27/12 23:03	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
o-Terphenyl (Surr)	73		50 - 150				11/24/12 16:27	11/27/12 23:03	1

TestAmerica Nashville

Client Sample Results

Client: Cardno ERI

Project/Site: Former Jalk Fee

TestAmerica Job ID: 490-12512-1

SDG: 08115513

Client Sample ID: W-107-MW9C

Date Collected: 11/17/12 08:16

Date Received: 11/24/12 08:10

Lab Sample ID: 490-12512-4

Matrix: Ground Water

Method: 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.500	U	0.500	0.200	ug/L			11/30/12 16:28	1
Toluene	<0.500	U	0.500	0.170	ug/L			11/30/12 16:28	1
Ethylbenzene	<0.500	U	0.500	0.190	ug/L			11/30/12 16:28	1
Xylenes, Total	<0.500	U	0.500	0.180	ug/L			11/30/12 16:28	1
Methyl tert-butyl ether	<1.00	U	1.00	0.120	ug/L			11/30/12 16:28	1
1,2-Dibromoethane (EDB)	<0.500	U	0.500	0.140	ug/L			11/30/12 16:28	1
1,2-Dichloroethane	1.19		0.500	0.200	ug/L			11/30/12 16:28	1
1,1,1,2-Tetrachloroethane	<0.500	U	0.500	0.150	ug/L			11/30/12 16:28	1
1,1,1-Trichloroethane	<0.500	U	0.500	0.190	ug/L			11/30/12 16:28	1
1,1,2,2-Tetrachloroethane	<0.500	U	0.500	0.190	ug/L			11/30/12 16:28	1
1,1,2-Trichloroethane	<0.500	U	0.500	0.190	ug/L			11/30/12 16:28	1
1,1-Dichloroethane	7.02		0.500	0.240	ug/L			11/30/12 16:28	1
1,1,2-Trichloro-1,2,2-trifluoroethane	<1.00	U	1.00	0.330	ug/L			11/30/12 16:28	1
1,1-Dichloroethene	53.2		0.500	0.250	ug/L			11/30/12 16:28	1
1,1-Dichloropropene	<0.500	U	0.500	0.200	ug/L			11/30/12 16:28	1
1,2,3-Trichlorobenzene	<0.500	U	0.500	0.230	ug/L			11/30/12 16:28	1
1,2,3-Trichloropropane	<0.500	U	0.500	0.230	ug/L			11/30/12 16:28	1
1,2,4-Trichlorobenzene	<0.500	U	0.500	0.150	ug/L			11/30/12 16:28	1
1,2,4-Trimethylbenzene	<0.500	U	0.500	0.170	ug/L			11/30/12 16:28	1
1,2-Dibromo-3-Chloropropane	<5.00	U	5.00	4.21	ug/L			11/30/12 16:28	1
1,2-Dichlorobenzene	<0.500	U	0.500	0.190	ug/L			11/30/12 16:28	1
1,2-Dichloropropane	<0.500	U	0.500	0.250	ug/L			11/30/12 16:28	1
1,3,5-Trimethylbenzene	<0.500	U	0.500	0.150	ug/L			11/30/12 16:28	1
1,3-Dichlorobenzene	<0.500	U	0.500	0.180	ug/L			11/30/12 16:28	1
1,3-Dichloropropane	<0.500	U	0.500	0.190	ug/L			11/30/12 16:28	1
1,4-Dichlorobenzene	<0.500	U	0.500	0.130	ug/L			11/30/12 16:28	1
2,2-Dichloropropane	<0.500	U	0.500	0.160	ug/L			11/30/12 16:28	1
2-Butanone (MEK)	<50.0	U	50.0	2.64	ug/L			11/30/12 16:28	1
2-Chlorotoluene	<0.500	U	0.500	0.180	ug/L			11/30/12 16:28	1
2-Hexanone	<10.0	U	10.0	1.28	ug/L			11/30/12 16:28	1
4-Chlorotoluene	<0.500	U	0.500	0.170	ug/L			11/30/12 16:28	1
4-Methyl-2-pentanone (MIBK)	<10.0	U	10.0	0.810	ug/L			11/30/12 16:28	1
Acetone	<50.0	U	50.0	2.66	ug/L			11/30/12 16:28	1
Bromobenzene	<0.500	U	0.500	0.210	ug/L			11/30/12 16:28	1
Chlorobromomethane	<0.500	U	0.500	0.330	ug/L			11/30/12 16:28	1
Dichlorobromomethane	0.312 J		0.500	0.110	ug/L			11/30/12 16:28	1
Bromoform	<0.500	U	0.500	0.290	ug/L			11/30/12 16:28	1
Bromomethane	<0.500	U	0.500	0.350	ug/L			11/30/12 16:28	1
Carbon disulfide	<0.500	U	0.500	0.220	ug/L			11/30/12 16:28	1
Carbon tetrachloride	<0.500	U	0.500	0.180	ug/L			11/30/12 16:28	1
Chlorobenzene	<0.500	U	0.500	0.180	ug/L			11/30/12 16:28	1
Chlorodibromomethane	0.532		0.500	0.250	ug/L			11/30/12 16:28	1
Chloroethane	<0.500	U	0.500	0.360	ug/L			11/30/12 16:28	1
Chloroform	<0.500	U	0.500	0.230	ug/L			11/30/12 16:28	1
Chloromethane	<0.500	U	0.500	0.300	ug/L			11/30/12 16:28	1
cis-1,2-Dichloroethene	21.3		0.500	0.210	ug/L			11/30/12 16:28	1
cis-1,3-Dichloropropene	<0.500	U *	0.500	0.120	ug/L			11/30/12 16:28	1
Dibromomethane	<0.500	U	0.500	0.310	ug/L			11/30/12 16:28	1
Dichlorodifluoromethane	<0.500	U	0.500	0.440	ug/L			11/30/12 16:28	1

TestAmerica Nashville

Client Sample Results

Client: Cardno ERI
Project/Site: Former Jalk Fee

TestAmerica Job ID: 490-12512-1
SDG: 08115513

Client Sample ID: W-107-MW9C

Lab Sample ID: 490-12512-4

Date Collected: 11/17/12 08:16
Date Received: 11/24/12 08:10

Matrix: Ground Water

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Hexachlorobutadiene	<1.00	U	1.00	0.210	ug/L			11/30/12 16:28	1
Isopropylbenzene	<1.00	U	1.00	0.170	ug/L			11/30/12 16:28	1
Methylene Chloride	<5.00	U	5.00	0.160	ug/L			11/30/12 16:28	1
Naphthalene	<5.00	U	5.00	0.210	ug/L			11/30/12 16:28	1
n-Butylbenzene	<0.500	U	0.500	0.240	ug/L			11/30/12 16:28	1
N-Propylbenzene	<0.500	U	0.500	0.170	ug/L			11/30/12 16:28	1
4-Isopropyltoluene	<0.500	U	0.500	0.170	ug/L			11/30/12 16:28	1
Styrene	<0.500	U	0.500	0.200	ug/L			11/30/12 16:28	1
sec-Butylbenzene	<0.500	U	0.500	0.170	ug/L			11/30/12 16:28	1
tert-Butylbenzene	<0.500	U	0.500	0.170	ug/L			11/30/12 16:28	1
Tetrachloroethene	29.7		0.500	0.250	ug/L			11/30/12 16:28	1
trans-1,2-Dichloroethene	0.369 J		0.500	0.230	ug/L			11/30/12 16:28	1
trans-1,3-Dichloropropene	<0.500	U	0.500	0.110	ug/L			11/30/12 16:28	1
Trichloroethene	30.3		0.500	0.200	ug/L			11/30/12 16:28	1
Trichlorofluoromethane	<0.500	U	0.500	0.210	ug/L			11/30/12 16:28	1
Vinyl chloride	<0.500	U	0.500	0.180	ug/L			11/30/12 16:28	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	92		70 - 130		11/30/12 16:28	1
4-Bromofluorobenzene (Surr)	102		70 - 130		11/30/12 16:28	1
Dibromofluoromethane (Surr)	96		70 - 130		11/30/12 16:28	1
Toluene-d8 (Surr)	103		70 - 130		11/30/12 16:28	1

Method: 8015B GRO LL - Gasoline Range Organics - (GC)

Analyte	Result	Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
C4-C12	72.5		50.0	38.0	ug/L			11/28/12 00:05	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
a,a,a-Trifluorotoluene	89		50 - 150					11/28/12 00:05	1

Method: 8015B - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics [C10-C28]	125	J	1000	56.0	ug/L		11/24/12 16:27	11/27/12 23:22	1
ORO C24-C40	179	J	1000	56.0	ug/L		11/24/12 16:27	11/27/12 23:22	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
o-Terphenyl (Surr)	97		50 - 150				11/24/12 16:27	11/27/12 23:22	1

TestAmerica Nashville

Client Sample Results

Client: Cardno ERI
Project/Site: Former Jalk Fee

TestAmerica Job ID: 490-12512-1
SDG: 08115513

Client Sample ID: QCTB

Date Collected: 11/17/12 06:00
Date Received: 11/24/12 08:10

Lab Sample ID: 490-12512-5

Matrix: Water

Method: 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.500	U	0.500	0.200	ug/L			11/30/12 23:07	1
Toluene	<0.500	U	0.500	0.170	ug/L			11/30/12 23:07	1
Ethylbenzene	<0.500	U	0.500	0.190	ug/L			11/30/12 23:07	1
Xylenes, Total	<0.500	U	0.500	0.180	ug/L			11/30/12 23:07	1
Methyl tert-butyl ether	<1.00	U	1.00	0.120	ug/L			11/30/12 23:07	1
1,2-Dibromoethane (EDB)	<0.500	U	0.500	0.140	ug/L			11/30/12 23:07	1
1,2-Dichloroethane	<0.500	U	0.500	0.200	ug/L			11/30/12 23:07	1
1,1,1,2-Tetrachloroethane	<0.500	U	0.500	0.150	ug/L			11/30/12 23:07	1
1,1,1-Trichloroethane	<0.500	U	0.500	0.190	ug/L			11/30/12 23:07	1
1,1,2,2-Tetrachloroethane	<0.500	U	0.500	0.190	ug/L			11/30/12 23:07	1
1,1,2-Trichloroethane	<0.500	U	0.500	0.190	ug/L			11/30/12 23:07	1
1,1-Dichloroethane	<0.500	U	0.500	0.240	ug/L			11/30/12 23:07	1
1,1,2-Trichloro-1,2,2-trifluoroethane	<1.00	U	1.00	0.330	ug/L			11/30/12 23:07	1
1,1-Dichloroethylene	<0.500	U	0.500	0.250	ug/L			11/30/12 23:07	1
1,1-Dichloropropene	<0.500	U	0.500	0.200	ug/L			11/30/12 23:07	1
1,2,3-Trichlorobenzene	<0.500	U	0.500	0.230	ug/L			11/30/12 23:07	1
1,2,3-Trichloropropane	<0.500	U	0.500	0.230	ug/L			11/30/12 23:07	1
1,2,4-Trichlorobenzene	<0.500	U	0.500	0.150	ug/L			11/30/12 23:07	1
1,2,4-Trimethylbenzene	<0.500	U	0.500	0.170	ug/L			11/30/12 23:07	1
1,2-Dibromo-3-Chloropropane	<5.00	U	5.00	4.21	ug/L			11/30/12 23:07	1
1,2-Dichlorobenzene	<0.500	U	0.500	0.190	ug/L			11/30/12 23:07	1
1,2-Dichloropropane	<0.500	U	0.500	0.250	ug/L			11/30/12 23:07	1
1,3,5-Trimethylbenzene	<0.500	U	0.500	0.150	ug/L			11/30/12 23:07	1
1,3-Dichlorobenzene	<0.500	U	0.500	0.180	ug/L			11/30/12 23:07	1
1,3-Dichloropropane	<0.500	U	0.500	0.190	ug/L			11/30/12 23:07	1
1,4-Dichlorobenzene	<0.500	U	0.500	0.130	ug/L			11/30/12 23:07	1
2,2-Dichloropropane	<0.500	U	0.500	0.160	ug/L			11/30/12 23:07	1
2-Butanone (MEK)	<50.0	U	50.0	2.64	ug/L			11/30/12 23:07	1
2-Chlorotoluene	<0.500	U	0.500	0.180	ug/L			11/30/12 23:07	1
2-Hexanone	<10.0	U	10.0	1.28	ug/L			11/30/12 23:07	1
4-Chlorotoluene	<0.500	U	0.500	0.170	ug/L			11/30/12 23:07	1
4-Methyl-2-pentanone (MIBK)	<10.0	U	10.0	0.810	ug/L			11/30/12 23:07	1
Acetone	<50.0	U	50.0	2.66	ug/L			11/30/12 23:07	1
Bromobenzene	<0.500	U	0.500	0.210	ug/L			11/30/12 23:07	1
Chlorobromomethane	<0.500	U	0.500	0.330	ug/L			11/30/12 23:07	1
Dichlorobromomethane	<0.500	U	0.500	0.110	ug/L			11/30/12 23:07	1
Bromoform	<0.500	U	0.500	0.290	ug/L			11/30/12 23:07	1
Bromomethane	<0.500	U	0.500	0.350	ug/L			11/30/12 23:07	1
Carbon disulfide	<0.500	U	0.500	0.220	ug/L			11/30/12 23:07	1
Carbon tetrachloride	<0.500	U	0.500	0.180	ug/L			11/30/12 23:07	1
Chlorobenzene	<0.500	U	0.500	0.180	ug/L			11/30/12 23:07	1
Chlorodibromomethane	<0.500	U	0.500	0.250	ug/L			11/30/12 23:07	1
Chloroethane	<0.500	U	0.500	0.360	ug/L			11/30/12 23:07	1
Chloroform	<0.500	U	0.500	0.230	ug/L			11/30/12 23:07	1
Chloromethane	<0.500	U	0.500	0.300	ug/L			11/30/12 23:07	1
cis-1,2-Dichloroethene	<0.500	U	0.500	0.210	ug/L			11/30/12 23:07	1
cis-1,3-Dichloropropene	<0.500	U	0.500	0.120	ug/L			11/30/12 23:07	1
Dibromomethane	<0.500	U	0.500	0.310	ug/L			11/30/12 23:07	1
Dichlorodifluoromethane	<0.500	U	0.500	0.440	ug/L			11/30/12 23:07	1

TestAmerica Nashville

Client Sample Results

Client: Cardno ERI
Project/Site: Former Jalk Fee

TestAmerica Job ID: 490-12512-1
SDG: 08115513

Client Sample ID: QCTB
Date Collected: 11/17/12 06:00
Date Received: 11/24/12 08:10

Lab Sample ID: 490-12512-5
Matrix: Water

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Hexachlorobutadiene	<1.00	U	1.00	0.210	ug/L			11/30/12 23:07	1
Isopropylbenzene	<1.00	U	1.00	0.170	ug/L			11/30/12 23:07	1
Methylene Chloride	<5.00	U	5.00	0.160	ug/L			11/30/12 23:07	1
Naphthalene	<5.00	U	5.00	0.210	ug/L			11/30/12 23:07	1
n-Butylbenzene	<0.500	U	0.500	0.240	ug/L			11/30/12 23:07	1
N-Propylbenzene	<0.500	U	0.500	0.170	ug/L			11/30/12 23:07	1
4-Isopropyltoluene	<0.500	U	0.500	0.170	ug/L			11/30/12 23:07	1
Styrene	<0.500	U	0.500	0.200	ug/L			11/30/12 23:07	1
sec-Butylbenzene	<0.500	U	0.500	0.170	ug/L			11/30/12 23:07	1
tert-Butylbenzene	<0.500	U	0.500	0.170	ug/L			11/30/12 23:07	1
Tetrachloroethene	<0.500	U	0.500	0.250	ug/L			11/30/12 23:07	1
trans-1,2-Dichloroethene	<0.500	U	0.500	0.230	ug/L			11/30/12 23:07	1
trans-1,3-Dichloropropene	<0.500	U	0.500	0.110	ug/L			11/30/12 23:07	1
Trichloroethene	<0.500	U	0.500	0.200	ug/L			11/30/12 23:07	1
Trichlorofluoromethane	<0.500	U	0.500	0.210	ug/L			11/30/12 23:07	1
Vinyl chloride	<0.500	U	0.500	0.180	ug/L			11/30/12 23:07	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	87		70 - 130		11/30/12 23:07	1
4-Bromofluorobenzene (Surr)	102		70 - 130		11/30/12 23:07	1
Dibromofluoromethane (Surr)	96		70 - 130		11/30/12 23:07	1
Toluene-d8 (Surr)	104		70 - 130		11/30/12 23:07	1

Method: 8015B GRO LL - Gasoline Range Organics - (GC)

Analyte	Result	Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
C4-C12	<50.0	U	50.0	38.0	ug/L			11/27/12 16:01	1
Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac			
a,a,a-Trifluorotoluene	86		50 - 150		11/27/12 16:01	1			

QC Sample Results

Client: Cardno ERI
 Project/Site: Former Jalk Fee

TestAmerica Job ID: 490-12512-1
 SDG: 08115513

Method: 8260B - Volatile Organic Compounds (GC/MS)

Lab Sample ID: MB 490-40097/6

Matrix: Water

Analysis Batch: 40097

Client Sample ID: Method Blank

Prep Type: Total/NA

Analyte	MB	MB	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
	Result	Qualifier							
Benzene	<0.500	U	0.500	0.200	ug/L			11/30/12 08:15	1
Toluene	<0.500	U	0.500	0.170	ug/L			11/30/12 08:15	1
Ethylbenzene	<0.500	U	0.500	0.190	ug/L			11/30/12 08:15	1
Xylenes, Total	<0.500	U	0.500	0.180	ug/L			11/30/12 08:15	1
Methyl tert-butyl ether	<1.00	U	1.00	0.120	ug/L			11/30/12 08:15	1
1,2-Dibromoethane (EDB)	<0.500	U	0.500	0.140	ug/L			11/30/12 08:15	1
1,2-Dichloroethane	<0.500	U	0.500	0.200	ug/L			11/30/12 08:15	1
1,1,1,2-Tetrachloroethane	<0.500	U	0.500	0.150	ug/L			11/30/12 08:15	1
1,1,1-Trichloroethane	<0.500	U	0.500	0.190	ug/L			11/30/12 08:15	1
1,1,2,2-Tetrachloroethane	<0.500	U	0.500	0.190	ug/L			11/30/12 08:15	1
1,1,2-Trichloroethane	<0.500	U	0.500	0.190	ug/L			11/30/12 08:15	1
1,1-Dichloroethane	<0.500	U	0.500	0.240	ug/L			11/30/12 08:15	1
1,1,2-Trichloro-1,2,2-trifluoroethane	<1.00	U	1.00	0.330	ug/L			11/30/12 08:15	1
1,1-Dichloroethene	<0.500	U	0.500	0.250	ug/L			11/30/12 08:15	1
1,1-Dichloropropene	<0.500	U	0.500	0.200	ug/L			11/30/12 08:15	1
1,2,3-Trichlorobenzene	<0.500	U	0.500	0.230	ug/L			11/30/12 08:15	1
1,2,3-Trichloropropane	<0.500	U	0.500	0.230	ug/L			11/30/12 08:15	1
1,2,4-Trichlorobenzene	<0.500	U	0.500	0.150	ug/L			11/30/12 08:15	1
1,2,4-Trimethylbenzene	<0.500	U	0.500	0.170	ug/L			11/30/12 08:15	1
1,2-Dibromo-3-Chloropropane	<5.00	U	5.00	4.21	ug/L			11/30/12 08:15	1
1,2-Dichlorobenzene	<0.500	U	0.500	0.190	ug/L			11/30/12 08:15	1
1,2-Dichloropropane	<0.500	U	0.500	0.250	ug/L			11/30/12 08:15	1
1,3,5-Trimethylbenzene	<0.500	U	0.500	0.150	ug/L			11/30/12 08:15	1
1,3-Dichlorobenzene	<0.500	U	0.500	0.180	ug/L			11/30/12 08:15	1
1,3-Dichloropropane	<0.500	U	0.500	0.190	ug/L			11/30/12 08:15	1
1,4-Dichlorobenzene	<0.500	U	0.500	0.130	ug/L			11/30/12 08:15	1
2,2-Dichloropropane	<0.500	U	0.500	0.160	ug/L			11/30/12 08:15	1
2-Butanone (MEK)	<50.0	U	50.0	2.64	ug/L			11/30/12 08:15	1
2-Chlorotoluene	<0.500	U	0.500	0.180	ug/L			11/30/12 08:15	1
2-Hexanone	<10.0	U	10.0	1.28	ug/L			11/30/12 08:15	1
4-Chlorotoluene	<0.500	U	0.500	0.170	ug/L			11/30/12 08:15	1
4-Methyl-2-pentanone (MIBK)	<10.0	U	10.0	0.810	ug/L			11/30/12 08:15	1
Acetone	<50.0	U	50.0	2.66	ug/L			11/30/12 08:15	1
Bromobenzene	<0.500	U	0.500	0.210	ug/L			11/30/12 08:15	1
Chlorobromomethane	<0.500	U	0.500	0.330	ug/L			11/30/12 08:15	1
Dichlorobromomethane	<0.500	U	0.500	0.110	ug/L			11/30/12 08:15	1
Bromoform	<0.500	U	0.500	0.290	ug/L			11/30/12 08:15	1
Bromomethane	<0.500	U	0.500	0.350	ug/L			11/30/12 08:15	1
Carbon disulfide	<0.500	U	0.500	0.220	ug/L			11/30/12 08:15	1
Carbon tetrachloride	<0.500	U	0.500	0.180	ug/L			11/30/12 08:15	1
Chlorobenzene	<0.500	U	0.500	0.180	ug/L			11/30/12 08:15	1
Chlorodibromomethane	<0.500	U	0.500	0.250	ug/L			11/30/12 08:15	1
Chloroethane	<0.500	U	0.500	0.360	ug/L			11/30/12 08:15	1
Chloroform	<0.500	U	0.500	0.230	ug/L			11/30/12 08:15	1
Chloromethane	<0.500	U	0.500	0.300	ug/L			11/30/12 08:15	1
cis-1,2-Dichloroethene	<0.500	U	0.500	0.210	ug/L			11/30/12 08:15	1
cis-1,3-Dichloropropene	<0.500	U	0.500	0.120	ug/L			11/30/12 08:15	1
Dibromomethane	<0.500	U	0.500	0.310	ug/L			11/30/12 08:15	1

TestAmerica Nashville

QC Sample Results

Client: Cardno ERI
Project/Site: Former Jalk Fee

TestAmerica Job ID: 490-12512-1
SDG: 08115513

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: MB 490-40097/6

Matrix: Water

Analysis Batch: 40097

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB		PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
	Result	Qualifier							
Dichlorodifluoromethane	<0.500	U	0.500	0.440	ug/L			11/30/12 08:15	1
Hexachlorobutadiene	0.7734	J	1.00	0.210	ug/L			11/30/12 08:15	1
Isopropylbenzene	<1.00	U	1.00	0.170	ug/L			11/30/12 08:15	1
Methylene Chloride	<5.00	U	5.00	0.160	ug/L			11/30/12 08:15	1
Naphthalene	<5.00	U	5.00	0.210	ug/L			11/30/12 08:15	1
n-Butylbenzene	<0.500	U	0.500	0.240	ug/L			11/30/12 08:15	1
N-Propylbenzene	<0.500	U	0.500	0.170	ug/L			11/30/12 08:15	1
4-Isopropyltoluene	<0.500	U	0.500	0.170	ug/L			11/30/12 08:15	1
Styrene	<0.500	U	0.500	0.200	ug/L			11/30/12 08:15	1
sec-Butylbenzene	<0.500	U	0.500	0.170	ug/L			11/30/12 08:15	1
tert-Butylbenzene	<0.500	U	0.500	0.170	ug/L			11/30/12 08:15	1
Tetrachloroethene	<0.500	U	0.500	0.250	ug/L			11/30/12 08:15	1
trans-1,2-Dichloroethene	<0.500	U	0.500	0.230	ug/L			11/30/12 08:15	1
trans-1,3-Dichloropropene	<0.500	U	0.500	0.110	ug/L			11/30/12 08:15	1
Trichloroethene	<0.500	U	0.500	0.200	ug/L			11/30/12 08:15	1
Trichlorofluoromethane	<0.500	U	0.500	0.210	ug/L			11/30/12 08:15	1
Vinyl chloride	<0.500	U	0.500	0.180	ug/L			11/30/12 08:15	1
MB		MB		Limits		Prepared		Analyzed	
Surrogate	%Recovery	Qualifier							
1,2-Dichloroethane-d4 (Surr)	86		70 - 130					11/30/12 08:15	1
4-Bromofluorobenzene (Surr)	102		70 - 130					11/30/12 08:15	1
Dibromofluoromethane (Surr)	96		70 - 130					11/30/12 08:15	1
Toluene-d8 (Surr)	103		70 - 130					11/30/12 08:15	1

Lab Sample ID: LCS 490-40097/3

Matrix: Water

Analysis Batch: 40097

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike		LCS Result	LCS Qualifier	Unit	D	%Rec	Limits	%Rec.
	Added								
Benzene	50.0		50.20		ug/L		100	80 - 121	
Toluene	50.0		53.63		ug/L		107	80 - 126	
Ethylbenzene	50.0		51.08		ug/L		102	80 - 130	
Xylenes, Total	150		155.2		ug/L		103	80 - 132	
Methyl tert-butyl ether	50.0		46.61		ug/L		93	72 - 133	
1,2-Dibromoethane (EDB)	50.0		56.36		ug/L		113	80 - 129	
1,2-Dichloroethane	50.0		42.04		ug/L		84	77 - 121	
1,1,1,2-Tetrachloroethane	50.0		49.07		ug/L		98	74 - 135	
1,1,1-Trichloroethane	50.0		44.95		ug/L		90	78 - 135	
1,1,2,2-Tetrachloroethane	50.0		53.34		ug/L		107	69 - 131	
1,1,2-Trichloroethane	50.0		50.36		ug/L		101	80 - 124	
1,1-Dichloroethane	50.0		49.69		ug/L		99	78 - 125	
1,1,2-Trichloro-1,2,2-trifluoroethane	50.0		47.68		ug/L		95	77 - 129	
1,1-Dichloroethene	50.0		59.67		ug/L		119	79 - 124	
1,1-Dichloropropene	50.0		49.28		ug/L		99	80 - 122	
1,2,3-Trichlorobenzene	50.0		55.50		ug/L		111	62 - 133	
1,2,3-Trichloropropane	50.0		48.46		ug/L		97	70 - 131	
1,2,4-Trichlorobenzene	50.0		53.33		ug/L		107	63 - 133	

TestAmerica Nashville

QC Sample Results

Client: Cardno ERI
Project/Site: Former Jalk Fee

TestAmerica Job ID: 490-12512-1
SDG: 08115513

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: LCS 490-40097/3

Matrix: Water

Analysis Batch: 40097

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike	LCS		Unit	D	%Rec	%Rec.
	Added	Result	Qualifier				
1,2,4-Trimethylbenzene	50.0	56.07		ug/L	112	77 - 126	
1,2-Dibromo-3-Chloropropane	50.0	52.99		ug/L	106	54 - 125	
1,2-Dichlorobenzene	50.0	51.69		ug/L	103	80 - 121	
1,2-Dichloropropane	50.0	45.11		ug/L	90	75 - 120	
1,3,5-Trimethylbenzene	50.0	56.73		ug/L	113	77 - 127	
1,3-Dichlorobenzene	50.0	51.37		ug/L	103	80 - 122	
1,3-Dichloropropane	50.0	52.64		ug/L	105	80 - 125	
1,4-Dichlorobenzene	50.0	50.98		ug/L	102	80 - 120	
2,2-Dichloropropane	50.0	46.88		ug/L	94	43 - 161	
2-Butanone (MEK)	250	266.0		ug/L	106	62 - 133	
2-Chlorotoluene	50.0	54.62		ug/L	109	75 - 126	
2-Hexanone	250	271.3		ug/L	109	60 - 142	
4-Chlorotoluene	50.0	53.57		ug/L	107	75 - 130	
4-Methyl-2-pentanone (MIBK)	250	307.7		ug/L	123	60 - 137	
Acetone	250	277.7		ug/L	111	54 - 145	
Bromobenzene	50.0	50.67		ug/L	101	68 - 130	
Chlorobromomethane	50.0	52.61		ug/L	105	78 - 129	
Dichlorobromomethane	50.0	44.24		ug/L	88	75 - 129	
Bromoform	50.0	49.63		ug/L	99	46 - 145	
Bromomethane	50.0	41.36		ug/L	83	41 - 150	
Carbon disulfide	50.0	45.94		ug/L	92	77 - 126	
Carbon tetrachloride	50.0	43.65		ug/L	87	64 - 147	
Chlorobenzene	50.0	52.35		ug/L	105	80 - 120	
Chlorodibromomethane	50.0	50.94		ug/L	102	69 - 133	
Chloroethane	50.0	45.43		ug/L	91	72 - 120	
Chloroform	50.0	48.26		ug/L	97	73 - 129	
Chloromethane	50.0	52.14		ug/L	104	12 - 150	
cis-1,2-Dichloroethene	50.0	45.96		ug/L	92	76 - 125	
cis-1,3-Dichloropropene	50.0	62.27		ug/L	125	74 - 140	
Dibromomethane	50.0	47.38		ug/L	95	71 - 125	
Dichlorodifluoromethane	50.0	51.74		ug/L	103	37 - 127	
Hexachlorobutadiene	50.0	44.39		ug/L	89	49 - 146	
Isopropylbenzene	50.0	55.22		ug/L	110	80 - 141	
Methylene Chloride	50.0	51.68		ug/L	103	79 - 123	
Naphthalene	50.0	55.28		ug/L	111	62 - 138	
n-Butylbenzene	50.0	57.54		ug/L	115	68 - 132	
N-Propylbenzene	50.0	54.81		ug/L	110	75 - 129	
4-Isopropyltoluene	50.0	55.88		ug/L	112	75 - 128	
Styrene	50.0	54.14		ug/L	108	80 - 127	
sec-Butylbenzene	50.0	58.58		ug/L	117	76 - 128	
tert-Butylbenzene	50.0	58.83		ug/L	118	76 - 126	
Tetrachloroethene	50.0	49.29		ug/L	99	80 - 126	
trans-1,2-Dichloroethene	50.0	50.24		ug/L	100	79 - 126	
trans-1,3-Dichloropropene	50.0	49.40		ug/L	99	63 - 134	
Trichloroethene	50.0	46.75		ug/L	94	80 - 123	
Trichlorofluoromethane	50.0	42.58		ug/L	85	65 - 124	
Vinyl chloride	50.0	49.10		ug/L	98	68 - 120	

TestAmerica Nashville

QC Sample Results

Client: Cardno ERI
Project/Site: Former Jalk Fee

TestAmerica Job ID: 490-12512-1
SDG: 08115513

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: LCS 490-40097/3

Matrix: Water

Analysis Batch: 40097

Surrogate	LCS	LCS	%Recovery	Qualifier	Limits
1,2-Dichloroethane-d4 (Surr)			80		70 - 130
4-Bromofluorobenzene (Surr)			103		70 - 130
Dibromofluoromethane (Surr)			93		70 - 130
Toluene-d8 (Surr)			108		70 - 130

Lab Sample ID: LCSD 490-40097/4

Matrix: Water

Analysis Batch: 40097

Analyte	Spike Added	LCS	LCS	Unit	D	%Rec	Limits	RPD	RPD	Limit
		Result	Qualifier							
Benzene	50.0	51.11		ug/L	102	80 - 121		2		17
Toluene	50.0	50.10		ug/L	100	80 - 126		7		15
Ethylbenzene	50.0	52.26		ug/L	105	80 - 130		2		15
Xylenes, Total	150	150.5		ug/L	100	80 - 132		3		15
Methyl tert-butyl ether	50.0	45.10		ug/L	90	72 - 133		3		16
1,2-Dibromoethane (EDB)	50.0	54.43		ug/L	109	80 - 129		3		15
1,2-Dichloroethane	50.0	42.89		ug/L	86	77 - 121		2		17
1,1,1,2-Tetrachloroethane	50.0	49.87		ug/L	100	74 - 135		2		16
1,1,1-Trichloroethane	50.0	45.32		ug/L	91	78 - 135		1		17
1,1,2,2-Tetrachloroethane	50.0	53.81		ug/L	108	69 - 131		1		20
1,1,2-Trichloroethane	50.0	47.30		ug/L	95	80 - 124		6		15
1,1-Dichloroethane	50.0	46.55		ug/L	93	78 - 125		7		17
1,1,2-Trichloro-1,2,2-trifluoroetha ne	50.0	47.61		ug/L	95	77 - 129		0		18
1,1-Dichloroethene	50.0	59.65		ug/L	119	79 - 124		0		17
1,1-Dichloropropene	50.0	47.31		ug/L	95	80 - 122		4		17
1,2,3-Trichlorobenzene	50.0	54.26		ug/L	109	62 - 133		2		25
1,2,3-Trichloropropane	50.0	51.99		ug/L	104	70 - 131		7		19
1,2,4-Trichlorobenzene	50.0	56.81		ug/L	114	63 - 133		6		19
1,2,4-Trimethylbenzene	50.0	55.41		ug/L	111	77 - 126		1		16
1,2-Dibromo-3-Chloropropane	50.0	52.06		ug/L	104	54 - 125		2		24
1,2-Dichlorobenzene	50.0	52.22		ug/L	104	80 - 121		1		15
1,2-Dichloropropene	50.0	45.46		ug/L	91	75 - 120		1		17
1,3,5-Trimethylbenzene	50.0	56.90		ug/L	114	77 - 127		0		17
1,3-Dichlorobenzene	50.0	50.12		ug/L	100	80 - 122		2		15
1,3-Dichloropropane	50.0	50.42		ug/L	101	80 - 125		4		14
1,4-Dichlorobenzene	50.0	51.73		ug/L	103	80 - 120		1		15
2,2-Dichloropropene	50.0	43.62		ug/L	87	43 - 161		7		18
2-Butanone (MEK)	250	259.2		ug/L	104	62 - 133		3		19
2-Chlorotoluene	50.0	53.16		ug/L	106	75 - 126		3		17
2-Hexanone	250	262.5		ug/L	105	60 - 142		3		15
4-Chlorotoluene	50.0	52.33		ug/L	105	75 - 130		2		18
4-Methyl-2-pentanone (MIBK)	250	263.1		ug/L	105	60 - 137		16		17
Acetone	250	271.7		ug/L	109	54 - 145		2		21
Bromobenzene	50.0	53.05		ug/L	106	68 - 130		5		20
Chlorobromomethane	50.0	51.09		ug/L	102	78 - 129		3		17
Dichlorobromomethane	50.0	43.80		ug/L	88	75 - 129		1		18
Bromoform	50.0	48.68		ug/L	97	46 - 145		2		16

TestAmerica Nashville

QC Sample Results

Client: Cardno ERI
Project/Site: Former Jalk Fee

TestAmerica Job ID: 490-12512-1
SDG: 08115513

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: LCSD 490-40097/4

Matrix: Water

Analysis Batch: 40097

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA

Analyte	Spike	LCSD	LCSD	Unit	D	%Rec	Limits	RPD	RPD Limit
	Added	Result	Qualifier						
Bromomethane	50.0	42.81		ug/L	86	41 - 150	3	50	
Carbon disulfide	50.0	44.54		ug/L	89	77 - 126	3	21	
Carbon tetrachloride	50.0	44.31		ug/L	89	64 - 147	2	19	
Chlorobenzene	50.0	51.99		ug/L	104	80 - 120	1	14	
Chlorodibromomethane	50.0	50.41		ug/L	101	69 - 133	1	15	
Chloroethane	50.0	48.32		ug/L	97	72 - 120	6	20	
Chloroform	50.0	46.95		ug/L	94	73 - 129	3	18	
Chloromethane	50.0	44.72		ug/L	89	12 - 150	15	31	
cis-1,2-Dichloroethene	50.0	43.64		ug/L	87	76 - 125	5	17	
cis-1,3-Dichloropropene	50.0	51.02 *		ug/L	102	74 - 140	20	15	
Dibromomethane	50.0	46.62		ug/L	93	71 - 125	2	16	
Dichlorodifluoromethane	50.0	50.90		ug/L	102	37 - 127	2	18	
Hexachlorobutadiene	50.0	42.45		ug/L	85	49 - 146	4	23	
Isopropylbenzene	50.0	55.17		ug/L	110	80 - 141	0	16	
Methylene Chloride	50.0	49.55		ug/L	99	79 - 123	4	17	
Naphthalene	50.0	54.91		ug/L	110	62 - 138	1	26	
n-Butylbenzene	50.0	56.97		ug/L	114	68 - 132	1	18	
N-Propylbenzene	50.0	54.91		ug/L	110	75 - 129	0	17	
4-Isopropyltoluene	50.0	55.41		ug/L	111	75 - 128	1	16	
Styrene	50.0	55.35		ug/L	111	80 - 127	2	24	
sec-Butylbenzene	50.0	56.66		ug/L	113	76 - 128	3	16	
tert-Butylbenzene	50.0	58.96		ug/L	118	76 - 126	0	16	
Tetrachloroethene	50.0	48.96		ug/L	98	80 - 126	1	16	
trans-1,2-Dichloroethene	50.0	46.48		ug/L	93	79 - 126	8	16	
trans-1,3-Dichloropropene	50.0	48.57		ug/L	97	63 - 134	2	14	
Trichloroethene	50.0	47.50		ug/L	95	80 - 123	2	17	
Trichlorofluoromethane	50.0	42.07		ug/L	84	65 - 124	1	18	
Vinyl chloride	50.0	48.51		ug/L	97	68 - 120	1	17	

Surrogate	LCSD	LCSD	Limits
	%Recovery	Qualifier	
1,2-Dichloroethane-d4 (Surr)	85		70 - 130
4-Bromofluorobenzene (Surr)	102		70 - 130
Dibromofluoromethane (Surr)	90		70 - 130
Toluene-d8 (Surr)	95		70 - 130

Lab Sample ID: 490-12513-B-1 MS

Matrix: Water

Analysis Batch: 40097

Client Sample ID: Matrix Spike
Prep Type: Total/NA

Analyte	Sample	Sample	Spike	MS	MS	Unit	D	%Rec	Limits
	Result	Qualifier	Added	Result	Qualifier				
Benzene	<0.500	U	50.0	54.07		ug/L	108	75 - 133	
Toluene	<0.500	U	50.0	56.08		ug/L	112	75 - 136	
Ethylbenzene	<0.500	U	50.0	56.02		ug/L	112	79 - 139	
Xylenes, Total	<0.500	U	150	166.0		ug/L	111	74 - 141	
Methyl tert-butyl ether	<1.00	U	50.0	51.53		ug/L	103	66 - 141	
1,2-Dibromoethane (EDB)	<0.500	U	50.0	59.14		ug/L	118	75 - 137	
1,2-Dichloroethane	4.15		50.0	51.92		ug/L	96	64 - 136	
1,1,1,2-Tetrachloroethane	<0.500	U	50.0	54.95		ug/L	110	73 - 141	

TestAmerica Nashville

QC Sample Results

Client: Cardno ERI

Project/Site: Former Jalk Fee

TestAmerica Job ID: 490-12512-1

SDG: 08115513

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: 490-12513-B-1 MS

Matrix: Water

Analysis Batch: 40097

Client Sample ID: Matrix Spike
Prep Type: Total/NA

Analyte	Sample	Sample	Spike	MS	MS	Unit	D	%Rec	Limits	
	Result	Qualifier	Added	Result	Qualifier					
1,1,1-Trichloroethane	0.934		50.0	52.72		ug/L		104	76 - 149	
1,1,2,2-Tetrachloroethane	<0.500	U	50.0	56.43		ug/L		113	56 - 143	
1,1,2-Trichloroethane	0.208	J	50.0	55.66		ug/L		111	74 - 134	
1,1-Dichloroethane	31.3		50.0	81.06		ug/L		100	71 - 139	
1,1,2-Trichloro-1,2,2-trifluoroethane	38.6		50.0	89.14		ug/L		101	72 - 148	
1,1-Dichloroethene	166		50.0	221.2	E	ug/L		110	70 - 142	
1,1-Dichloropropene	<0.500	U	50.0	53.87		ug/L		108	76 - 139	
1,2,3-Trichlorobenzene	<0.500	U	50.0	56.84		ug/L		114	55 - 138	
1,2,3-Trichloropropane	<0.500	U	50.0	53.04		ug/L		106	53 - 144	
1,2,4-Trichlorobenzene	<0.500	U	50.0	55.91		ug/L		112	60 - 136	
1,2,4-Trimethylbenzene	<0.500	U	50.0	55.90		ug/L		112	69 - 136	
1,2-Dibromo-3-Chloropropane	<5.00	U	50.0	54.07		ug/L		108	52 - 126	
1,2-Dichlorobenzene	<0.500	U	50.0	55.17		ug/L		110	79 - 128	
1,2-Dichloropropane	0.392	J	50.0	49.38		ug/L		98	67 - 131	
1,3,5-Trimethylbenzene	<0.500	U	50.0	57.71		ug/L		115	69 - 139	
1,3-Dichlorobenzene	<0.500	U	50.0	53.43		ug/L		107	77 - 131	
1,3-Dichloropropane	<0.500	U	50.0	55.72		ug/L		111	72 - 134	
1,4-Dichlorobenzene	<0.500	U	50.0	55.30		ug/L		111	78 - 126	
2,2-Dichloropropane	<0.500	U	50.0	48.85		ug/L		98	37 - 175	
2-Butanone (MEK)	<50.0	U	250	277.1		ug/L		111	50 - 138	
2-Chlorotoluene	<0.500	U	50.0	53.38		ug/L		107	67 - 138	
2-Hexanone	<10.0	U	250	286.3		ug/L		115	50 - 150	
4-Chlorotoluene	<0.500	U	50.0	54.87		ug/L		110	69 - 138	
4-Methyl-2-pentanone (MIBK)	<10.0	U	250	294.8		ug/L		118	50 - 147	
Acetone	<50.0	U	250	249.0		ug/L		100	45 - 141	
Bromobenzene	<0.500	U	50.0	52.95		ug/L		106	60 - 138	
Chlorobromomethane	<0.500	U	50.0	56.45		ug/L		113	67 - 139	
Dichlorobromomethane	<0.500	U	50.0	52.30		ug/L		105	70 - 140	
Bromoform	<0.500	U	50.0	53.39		ug/L		107	42 - 147	
Bromomethane	<0.500	U	50.0	44.65		ug/L		89	16 - 163	
Carbon disulfide	<0.500	U	50.0	46.08		ug/L		92	48 - 152	
Carbon tetrachloride	<0.500	U	50.0	52.15		ug/L		104	62 - 164	
Chlorobenzene	<0.500	U	50.0	56.41		ug/L		113	80 - 129	
Chlorodibromomethane	<0.500	U	50.0	55.11		ug/L		110	66 - 140	
Chloroethane	<0.500	U	50.0	46.42		ug/L		93	58 - 137	
Chloroform	9.40		50.0	62.06		ug/L		105	66 - 138	
Chloromethane	<0.500	U	50.0	45.51		ug/L		91	10 - 169	
cis-1,2-Dichloroethene	58.0		50.0	105.5		ug/L		95	68 - 138	
cis-1,3-Dichloropropene	<0.500	U *	50.0	57.47		ug/L		115	71 - 141	
Dibromomethane	<0.500	U	50.0	54.36		ug/L		109	58 - 140	
Dichlorodifluoromethane	<0.500	U	50.0	46.70		ug/L		93	40 - 127	
Hexachlorobutadiene	0.300	J B	50.0	40.77		ug/L		81	45 - 155	
Isopropylbenzene	<1.00	U	50.0	59.96		ug/L		120	80 - 153	
Methylene Chloride	<5.00	U	50.0	53.25		ug/L		106	64 - 139	
Naphthalene	<5.00	U	50.0	57.94		ug/L		116	55 - 140	
n-Butylbenzene	<0.500	U	50.0	57.16		ug/L		114	66 - 141	
N-Propylbenzene	<0.500	U	50.0	55.29		ug/L		111	69 - 142	

TestAmerica Nashville

QC Sample Results

Client: Cardno ERI

Project/Site: Former Jalk Fee

TestAmerica Job ID: 490-12512-1

SDG: 08115513

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: 490-12513-B-1 MS

Matrix: Water

Analysis Batch: 40097

Client Sample ID: Matrix Spike
Prep Type: Total/NA

Analyte	Sample	Sample	Spike	MS	MS	Unit	D	%Rec	Limits	
	Result	Qualifier	Added	Result	Qualifier					
4-Isopropyltoluene	<0.500	U	50.0	57.78		ug/L	116	71 - 137		
Styrene	<0.500	U	50.0	59.41		ug/L	119	61 - 148		
sec-Butylbenzene	<0.500	U	50.0	57.95		ug/L	116	73 - 138		
tert-Butylbenzene	<0.500	U	50.0	59.24		ug/L	118	70 - 138		
Tetrachloroethene	192		50.0	253.7	E	ug/L	124	72 - 145		
trans-1,2-Dichloroethene	0.590		50.0	54.29		ug/L	107	66 - 143		
trans-1,3-Dichloropropene	<0.500	U	50.0	52.47		ug/L	105	59 - 135		
Trichloroethene	131		50.0	187.7		ug/L	114	73 - 144		
Trichlorofluoromethane	15.1		50.0	62.17		ug/L	94	58 - 139		
Vinyl chloride	<0.500	U	50.0	49.80		ug/L	100	56 - 129		
MS MS										
Surrogate	%Recovery	Qualifier		Limits						
1,2-Dichloroethane-d4 (Surr)	88			70 - 130						
4-Bromofluorobenzene (Surr)	97			70 - 130						
Dibromofluoromethane (Surr)	98			70 - 130						
Toluene-d8 (Surr)	104			70 - 130						

Lab Sample ID: 490-12513-C-1 MSD

Matrix: Water

Analysis Batch: 40097

Client Sample ID: Matrix Spike Duplicate
Prep Type: Total/NA

Analyte	Sample	Sample	Spike	MSD	MSD	Unit	D	%Rec	Limits	RPD	Limit
	Result	Qualifier	Added	Result	Qualifier						
Benzene	<0.500	U	50.0	55.19		ug/L	110	75 - 133		2	17
Toluene	<0.500	U	50.0	54.89		ug/L	110	75 - 136		2	15
Ethylbenzene	<0.500	U	50.0	54.58		ug/L	109	79 - 139		3	15
Xylenes, Total	<0.500	U	150	158.7		ug/L	106	74 - 141		4	15
Methyl tert-butyl ether	<1.00	U	50.0	53.99		ug/L	108	66 - 141		5	16
1,2-Dibromoethane (EDB)	<0.500	U	50.0	57.46		ug/L	115	75 - 137		3	15
1,2-Dichloroethane	4.15		50.0	50.84		ug/L	93	64 - 136		2	17
1,1,1,2-Tetrachloroethane	<0.500	U	50.0	52.03		ug/L	104	73 - 141		5	16
1,1,1-Trichloroethane	0.934		50.0	49.70		ug/L	98	76 - 149		6	17
1,1,2,2-Tetrachloroethane	<0.500	U	50.0	60.27		ug/L	121	56 - 143		7	20
1,1,2-Trichloroethane	0.208	J	50.0	55.88		ug/L	111	74 - 134		0	15
1,1-Dichloroethane	31.3		50.0	86.96		ug/L	111	71 - 139		7	17
1,1,2-Trichloro-1,2,2-trifluoroethane	38.6		50.0	91.72		ug/L	106	72 - 148		3	18
1,1-Dichloroethene	166		50.0	228.6	E	ug/L	125	70 - 142		3	17
1,1-Dichloropropene	<0.500	U	50.0	53.17		ug/L	106	76 - 139		1	17
1,2,3-Trichlorobenzene	<0.500	U	50.0	58.07		ug/L	116	55 - 138		2	25
1,2,3-Trichloropropane	<0.500	U	50.0	53.35		ug/L	107	53 - 144		1	19
1,2,4-Trichlorobenzene	<0.500	U	50.0	58.25		ug/L	117	60 - 136		4	19
1,2,4-Trimethylbenzene	<0.500	U	50.0	56.21		ug/L	112	69 - 136		1	16
1,2-Dibromo-3-Chloropropane	<5.00	U	50.0	57.46		ug/L	115	52 - 126		6	24
1,2-Dichlorobenzene	<0.500	U	50.0	55.03		ug/L	110	79 - 128		0	15
1,2-Dichloropropane	0.392	J	50.0	52.00		ug/L	103	67 - 131		5	17
1,3,5-Trimethylbenzene	<0.500	U	50.0	58.04		ug/L	116	69 - 139		1	17
1,3-Dichlorobenzene	<0.500	U	50.0	53.04		ug/L	106	77 - 131		1	15
1,3-Dichloropropane	<0.500	U	50.0	56.16		ug/L	112	72 - 134		1	14

TestAmerica Nashville

QC Sample Results

Client: Cardno ERI

Project/Site: Former Jalk Fee

TestAmerica Job ID: 490-12512-1

SDG: 08115513

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: 490-12513-C-1 MSD

Matrix: Water

Analysis Batch: 40097

Client Sample ID: Matrix Spike Duplicate
Prep Type: Total/NA

Analyte	Sample	Sample	Spike	MSD	MSD	Unit	D	%Rec	Limits	RPD	RPD	Limit
	Result	Qualifier	Added	Result	Qualifier							
1,4-Dichlorobenzene	<0.500	U	50.0	54.02		ug/L		108	78 - 126	2	15	
2,2-Dichloropropane	<0.500	U	50.0	47.65		ug/L		95	37 - 175	2	18	
2-Butanone (MEK)	<50.0	U	250	282.2		ug/L		113	50 - 138	2	19	
2-Chlorotoluene	<0.500	U	50.0	54.80		ug/L		110	67 - 138	3	17	
2-Hexanone	<10.0	U	250	298.3		ug/L		119	50 - 150	4	15	
4-Chlorotoluene	<0.500	U	50.0	55.86		ug/L		112	69 - 138	2	18	
4-Methyl-2-pentanone (MIBK)	<10.0	U	250	302.2		ug/L		121	50 - 147	2	17	
Acetone	<50.0	U	250	254.4		ug/L		102	45 - 141	2	21	
Bromobenzene	<0.500	U	50.0	55.45		ug/L		111	60 - 138	5	20	
Chlorobromomethane	<0.500	U	50.0	54.44		ug/L		109	67 - 139	4	17	
Dichlorobromomethane	<0.500	U	50.0	51.85		ug/L		104	70 - 140	1	18	
Bromoform	<0.500	U	50.0	50.24		ug/L		100	42 - 147	6	16	
Bromomethane	<0.500	U	50.0	48.01		ug/L		96	16 - 163	7	50	
Carbon disulfide	<0.500	U	50.0	46.57		ug/L		93	48 - 152	1	21	
Carbon tetrachloride	<0.500	U	50.0	47.42		ug/L		95	62 - 164	9	19	
Chlorobenzene	<0.500	U	50.0	54.99		ug/L		110	80 - 129	3	14	
Chlorodibromomethane	<0.500	U	50.0	52.94		ug/L		106	66 - 140	4	15	
Chloroethane	<0.500	U	50.0	46.56		ug/L		93	58 - 137	0	20	
Chloroform	9.40		50.0	58.89		ug/L		99	66 - 138	5	18	
Chloromethane	<0.500	U	50.0	43.43		ug/L		87	10 - 169	5	31	
cis-1,2-Dichloroethene	58.0		50.0	109.8		ug/L		104	68 - 138	4	17	
cis-1,3-Dichloropropene	<0.500	U *	50.0	58.16		ug/L		116	71 - 141	1	15	
Dibromomethane	<0.500	U	50.0	54.29		ug/L		109	58 - 140	0	16	
Dichlorodifluoromethane	<0.500	U	50.0	42.66		ug/L		85	40 - 127	9	18	
Hexachlorobutadiene	0.300	JB	50.0	41.63		ug/L		83	45 - 155	2	23	
Isopropylbenzene	<1.00	U	50.0	57.52		ug/L		115	80 - 153	4	16	
Methylene Chloride	<5.00	U	50.0	54.56		ug/L		109	64 - 139	2	17	
Naphthalene	<5.00	U	50.0	59.69		ug/L		119	55 - 140	3	26	
n-Butylbenzene	<0.500	U	50.0	59.63		ug/L		119	66 - 141	4	18	
N-Propylbenzene	<0.500	U	50.0	56.11		ug/L		112	69 - 142	1	17	
4-Isopropyltoluene	<0.500	U	50.0	57.86		ug/L		116	71 - 137	0	16	
Styrene	<0.500	U	50.0	58.62		ug/L		117	61 - 148	1	24	
sec-Butylbenzene	<0.500	U	50.0	59.97		ug/L		120	73 - 138	3	16	
tert-Butylbenzene	<0.500	U	50.0	59.35		ug/L		119	70 - 138	0	16	
Tetrachloroethene	192		50.0	237.9	E	ug/L		92	72 - 145	6	16	
trans-1,2-Dichloroethene	0.590		50.0	53.79		ug/L		106	66 - 143	1	16	
trans-1,3-Dichloropropene	<0.500	U	50.0	52.86		ug/L		106	59 - 135	1	14	
Trichloroethene	131		50.0	187.7		ug/L		114	73 - 144	0	17	
Trichlorofluoromethane	15.1		50.0	59.12		ug/L		88	58 - 139	5	18	
Vinyl chloride	<0.500	U	50.0	48.44		ug/L		97	56 - 129	3	17	

Surrogate	MSD	MSD	Limits
	%Recovery	Qualifier	
1,2-Dichloroethane-d4 (Surr)	87		70 - 130
4-Bromofluorobenzene (Surr)	103		70 - 130
Dibromofluoromethane (Surr)	97		70 - 130
Toluene-d8 (Surr)	105		70 - 130

TestAmerica Nashville

QC Sample Results

Client: Cardno ERI
 Project/Site: Former Jalk Fee

TestAmerica Job ID: 490-12512-1
 SDG: 08115513

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: MB 490-40239/6

Matrix: Water

Analysis Batch: 40239

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB	MB	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
	Result	Qualifier							
Benzene	<0.500	U	0.500	0.200	ug/L			11/30/12 21:04	1
Toluene	<0.500	U	0.500	0.170	ug/L			11/30/12 21:04	1
Ethylbenzene	<0.500	U	0.500	0.190	ug/L			11/30/12 21:04	1
Xylenes, Total	<0.500	U	0.500	0.180	ug/L			11/30/12 21:04	1
Methyl tert-butyl ether	<1.00	U	1.00	0.120	ug/L			11/30/12 21:04	1
1,2-Dibromoethane (EDB)	<0.500	U	0.500	0.140	ug/L			11/30/12 21:04	1
1,2-Dichloroethane	<0.500	U	0.500	0.200	ug/L			11/30/12 21:04	1
1,1,1,2-Tetrachloroethane	<0.500	U	0.500	0.150	ug/L			11/30/12 21:04	1
1,1,1-Trichloroethane	<0.500	U	0.500	0.190	ug/L			11/30/12 21:04	1
1,1,2,2-Tetrachloroethane	<0.500	U	0.500	0.190	ug/L			11/30/12 21:04	1
1,1,2-Trichloroethane	<0.500	U	0.500	0.190	ug/L			11/30/12 21:04	1
1,1-Dichloroethane	<0.500	U	0.500	0.240	ug/L			11/30/12 21:04	1
1,1,2-Trichloro-1,2,2-trifluoroethane	<1.00	U	1.00	0.330	ug/L			11/30/12 21:04	1
1,1-Dichloroethene	<0.500	U	0.500	0.250	ug/L			11/30/12 21:04	1
1,1-Dichloropropene	<0.500	U	0.500	0.200	ug/L			11/30/12 21:04	1
1,2,3-Trichlorobenzene	<0.500	U	0.500	0.230	ug/L			11/30/12 21:04	1
1,2,3-Trichloropropane	<0.500	U	0.500	0.230	ug/L			11/30/12 21:04	1
1,2,4-Trichlorobenzene	<0.500	U	0.500	0.150	ug/L			11/30/12 21:04	1
1,2,4-Trimethylbenzene	<0.500	U	0.500	0.170	ug/L			11/30/12 21:04	1
1,2-Dibromo-3-Chloropropane	<5.00	U	5.00	4.21	ug/L			11/30/12 21:04	1
1,2-Dichlorobenzene	<0.500	U	0.500	0.190	ug/L			11/30/12 21:04	1
1,2-Dichloropropane	<0.500	U	0.500	0.250	ug/L			11/30/12 21:04	1
1,3,5-Trimethylbenzene	<0.500	U	0.500	0.150	ug/L			11/30/12 21:04	1
1,3-Dichlorobenzene	<0.500	U	0.500	0.180	ug/L			11/30/12 21:04	1
1,3-Dichloropropane	<0.500	U	0.500	0.190	ug/L			11/30/12 21:04	1
1,4-Dichlorobenzene	<0.500	U	0.500	0.130	ug/L			11/30/12 21:04	1
2,2-Dichloropropane	<0.500	U	0.500	0.160	ug/L			11/30/12 21:04	1
2-Butanone (MEK)	<50.0	U	50.0	2.64	ug/L			11/30/12 21:04	1
2-Chlorotoluene	<0.500	U	0.500	0.180	ug/L			11/30/12 21:04	1
2-Hexanone	<10.0	U	10.0	1.28	ug/L			11/30/12 21:04	1
4-Chlorotoluene	<0.500	U	0.500	0.170	ug/L			11/30/12 21:04	1
4-Methyl-2-pentanone (MIBK)	<10.0	U	10.0	0.810	ug/L			11/30/12 21:04	1
Acetone	<50.0	U	50.0	2.66	ug/L			11/30/12 21:04	1
Bromobenzene	<0.500	U	0.500	0.210	ug/L			11/30/12 21:04	1
Chlorobromomethane	<0.500	U	0.500	0.330	ug/L			11/30/12 21:04	1
Dichlorobromomethane	<0.500	U	0.500	0.110	ug/L			11/30/12 21:04	1
Bromoform	<0.500	U	0.500	0.290	ug/L			11/30/12 21:04	1
Bromomethane	<0.500	U	0.500	0.350	ug/L			11/30/12 21:04	1
Carbon disulfide	<0.500	U	0.500	0.220	ug/L			11/30/12 21:04	1
Carbon tetrachloride	<0.500	U	0.500	0.180	ug/L			11/30/12 21:04	1
Chlorobenzene	<0.500	U	0.500	0.180	ug/L			11/30/12 21:04	1
Chlorodibromomethane	<0.500	U	0.500	0.250	ug/L			11/30/12 21:04	1
Chloroethane	<0.500	U	0.500	0.360	ug/L			11/30/12 21:04	1
Chloroform	<0.500	U	0.500	0.230	ug/L			11/30/12 21:04	1
Chloromethane	<0.500	U	0.500	0.300	ug/L			11/30/12 21:04	1
cis-1,2-Dichloroethene	<0.500	U	0.500	0.210	ug/L			11/30/12 21:04	1
cis-1,3-Dichloropropene	<0.500	U	0.500	0.120	ug/L			11/30/12 21:04	1
Dibromomethane	<0.500	U	0.500	0.310	ug/L			11/30/12 21:04	1

TestAmerica Nashville

QC Sample Results

Client: Cardno ERI
Project/Site: Former Jalk Fee

TestAmerica Job ID: 490-12512-1
SDG: 08115513

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: MB 490-40239/6

Matrix: Water

Analysis Batch: 40239

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB	MB	Result	Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac	
	Result	Qualifier										
Dichlorodifluoromethane	<0.500	U	0.500		0.440	ug/L				11/30/12 21:04	1	
Hexachlorobutadiene	0.4804	J			1.00	0.210	ug/L			11/30/12 21:04	1	
Isopropylbenzene	<1.00	U			1.00	0.170	ug/L			11/30/12 21:04	1	
Methylene Chloride	0.2052	J			5.00	0.160	ug/L			11/30/12 21:04	1	
Naphthalene	<5.00	U			5.00	0.210	ug/L			11/30/12 21:04	1	
n-Butylbenzene	<0.500	U			0.500	0.240	ug/L			11/30/12 21:04	1	
N-Propylbenzene	<0.500	U			0.500	0.170	ug/L			11/30/12 21:04	1	
4-Isopropyltoluene	<0.500	U			0.500	0.170	ug/L			11/30/12 21:04	1	
Styrene	<0.500	U			0.500	0.200	ug/L			11/30/12 21:04	1	
sec-Butylbenzene	<0.500	U			0.500	0.170	ug/L			11/30/12 21:04	1	
tert-Butylbenzene	<0.500	U			0.500	0.170	ug/L			11/30/12 21:04	1	
Tetrachloroethene	<0.500	U			0.500	0.250	ug/L			11/30/12 21:04	1	
trans-1,2-Dichloroethene	<0.500	U			0.500	0.230	ug/L			11/30/12 21:04	1	
trans-1,3-Dichloropropene	<0.500	U			0.500	0.110	ug/L			11/30/12 21:04	1	
Trichloroethene	<0.500	U			0.500	0.200	ug/L			11/30/12 21:04	1	
Trichlorofluoromethane	<0.500	U			0.500	0.210	ug/L			11/30/12 21:04	1	
Vinyl chloride	<0.500	U			0.500	0.180	ug/L			11/30/12 21:04	1	
MB MB		Surrogate		%Recovery		Qualifer		Limits		Prepared		
1,2-Dichloroethane-d4 (Surr)		86				70 - 130					11/30/12 21:04	1
4-Bromofluorobenzene (Surr)		109				70 - 130					11/30/12 21:04	1
Dibromofluoromethane (Surr)		97				70 - 130					11/30/12 21:04	1
Toluene-d8 (Surr)		101				70 - 130					11/30/12 21:04	1

Lab Sample ID: LCS 490-40239/3

Matrix: Water

Analysis Batch: 40239

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	MB	MB	LCS Result	LCS Qualifier	Unit	D	%Rec	Limits	Prepared	Analyzed	Dil Fac
		Spke Added	Result									
Benzene	50.0		49.41			ug/L		99	80 - 121			
Toluene	50.0		51.80			ug/L		104	80 - 126			
Ethylbenzene	50.0		50.57			ug/L		101	80 - 130			
Xylenes, Total	150		147.8			ug/L		99	80 - 132			
Methyl tert-butyl ether	50.0		49.51			ug/L		99	72 - 133			
1,2-Dibromoethane (EDB)	50.0		55.75			ug/L		112	80 - 129			
1,2-Dichloroethane	50.0		43.17			ug/L		86	77 - 121			
1,1,1,2-Tetrachloroethane	50.0		48.87			ug/L		98	74 - 135			
1,1,1-Trichloroethane	50.0		42.20			ug/L		84	78 - 135			
1,1,2,2-Tetrachloroethane	50.0		55.96			ug/L		112	69 - 131			
1,1,2-Trichloroethane	50.0		53.89			ug/L		108	80 - 124			
1,1-Dichloroethane	50.0		47.46			ug/L		95	78 - 125			
1,1,2-Trichloro-1,2,2-trifluoroethane	50.0		45.25			ug/L		90	77 - 129			
1,1-Dichloroethene	50.0		57.20			ug/L		114	79 - 124			
1,1-Dichloropropene	50.0		46.81			ug/L		94	80 - 122			
1,2,3-Trichlorobenzene	50.0		56.58			ug/L		113	62 - 133			
1,2,3-Trichloropropane	50.0		52.16			ug/L		104	70 - 131			
1,2,4-Trichlorobenzene	50.0		55.88			ug/L		112	63 - 133			

TestAmerica Nashville

QC Sample Results

Client: Cardno ERI

TestAmerica Job ID: 490-12512-1

Project/Site: Former Jalk Fee

SDG: 08115513

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: LCS 490-40239/3

Client Sample ID: Lab Control Sample

Matrix: Water

Prep Type: Total/NA

Analysis Batch: 40239

Analyte	Spike	LCS		Unit	D	%Rec	%Rec.
	Added	Result	Qualifier				
1,2,4-Trimethylbenzene	50.0	52.10		ug/L	104	77 - 126	
1,2-Dibromo-3-Chloropropane	50.0	53.40		ug/L	107	54 - 125	
1,2-Dichlorobenzene	50.0	52.17		ug/L	104	80 - 121	
1,2-Dichloropropane	50.0	47.20		ug/L	94	75 - 120	
1,3,5-Trimethylbenzene	50.0	53.20		ug/L	106	77 - 127	
1,3-Dichlorobenzene	50.0	49.47		ug/L	99	80 - 122	
1,3-Dichloropropane	50.0	54.00		ug/L	108	80 - 125	
1,4-Dichlorobenzene	50.0	51.08		ug/L	102	80 - 120	
2,2-Dichloropropane	50.0	40.96		ug/L	82	43 - 161	
2-Butanone (MEK)	250	282.9		ug/L	113	62 - 133	
2-Chlorotoluene	50.0	50.75		ug/L	101	75 - 126	
2-Hexanone	250	293.0		ug/L	117	60 - 142	
4-Chlorotoluene	50.0	51.26		ug/L	103	75 - 130	
4-Methyl-2-pentanone (MIBK)	250	296.4		ug/L	119	60 - 137	
Acetone	250	281.9		ug/L	113	54 - 145	
Bromobenzene	50.0	53.42		ug/L	107	68 - 130	
Chlorobromomethane	50.0	52.21		ug/L	104	78 - 129	
Dichlorobromomethane	50.0	46.97		ug/L	94	75 - 129	
Bromoform	50.0	48.53		ug/L	97	46 - 145	
Bromomethane	50.0	47.00		ug/L	94	41 - 150	
Carbon disulfide	50.0	43.48		ug/L	87	77 - 126	
Carbon tetrachloride	50.0	42.40		ug/L	85	64 - 147	
Chlorobenzene	50.0	51.57		ug/L	103	80 - 120	
Chlorodibromomethane	50.0	52.03		ug/L	104	69 - 133	
Chloroethane	50.0	46.03		ug/L	92	72 - 120	
Chloroform	50.0	47.25		ug/L	94	73 - 129	
Chloromethane	50.0	47.58		ug/L	95	12 - 150	
cis-1,2-Dichloroethene	50.0	45.74		ug/L	91	76 - 125	
cis-1,3-Dichloropropene	50.0	55.24		ug/L	110	74 - 140	
Dibromomethane	50.0	50.78		ug/L	102	71 - 125	
Dichlorodifluoromethane	50.0	49.41		ug/L	99	37 - 127	
Hexachlorobutadiene	50.0	39.37		ug/L	79	49 - 146	
Isopropylbenzene	50.0	52.65		ug/L	105	80 - 141	
Methylene Chloride	50.0	51.33		ug/L	103	79 - 123	
Naphthalene	50.0	57.78		ug/L	116	62 - 138	
n-Butylbenzene	50.0	53.68		ug/L	107	68 - 132	
N-Propylbenzene	50.0	51.41		ug/L	103	75 - 129	
4-Isopropyltoluene	50.0	53.60		ug/L	107	75 - 128	
Styrene	50.0	55.05		ug/L	110	80 - 127	
sec-Butylbenzene	50.0	54.36		ug/L	109	76 - 128	
tert-Butylbenzene	50.0	54.02		ug/L	108	76 - 126	
Tetrachloroethene	50.0	46.59		ug/L	93	80 - 126	
trans-1,2-Dichloroethene	50.0	48.69		ug/L	97	79 - 126	
trans-1,3-Dichloropropene	50.0	50.57		ug/L	101	63 - 134	
Trichloroethene	50.0	49.93		ug/L	100	80 - 123	
Trichlorofluoromethane	50.0	41.74		ug/L	83	65 - 124	
Vinyl chloride	50.0	47.86		ug/L	96	68 - 120	

TestAmerica Nashville

QC Sample Results

Client: Cardno ERI
Project/Site: Former Jalk Fee

TestAmerica Job ID: 490-12512-1
SDG: 08115513

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: LCS 490-40239/3

Matrix: Water

Analysis Batch: 40239

Surrogate	LCS	LCS	%Recovery	Qualifier	Limits
1,2-Dichloroethane-d4 (Surr)			84		70 - 130
4-Bromofluorobenzene (Surr)			103		70 - 130
Dibromofluoromethane (Surr)			93		70 - 130
Toluene-d8 (Surr)			105		70 - 130

Lab Sample ID: LCSD 490-40239/4

Matrix: Water

Analysis Batch: 40239

Analyte	Spike	LCSD	LCSD	Unit	D	%Rec	Limits	RPD	RPD Limit
	Added	Result	Qualifier						
Benzene	50.0	50.67		ug/L	101	80 - 121		3	17
Toluene	50.0	51.28		ug/L	103	80 - 126		1	15
Ethylbenzene	50.0	51.36		ug/L	103	80 - 130		2	15
Xylenes, Total	150	151.6		ug/L	101	80 - 132		3	15
Methyl tert-butyl ether	50.0	51.46		ug/L	103	72 - 133		4	16
1,2-Dibromoethane (EDB)	50.0	56.23		ug/L	112	80 - 129		1	15
1,2-Dichloroethane	50.0	44.22		ug/L	88	77 - 121		2	17
1,1,1,2-Tetrachloroethane	50.0	49.41		ug/L	99	74 - 135		1	16
1,1,1-Trichloroethane	50.0	45.56		ug/L	91	78 - 135		8	17
1,1,2,2-Tetrachloroethane	50.0	57.13		ug/L	114	69 - 131		2	20
1,1,2-Trichloroethane	50.0	53.96		ug/L	108	80 - 124		0	15
1,1-Dichloroethane	50.0	51.18		ug/L	102	78 - 125		8	17
1,1,2-Trichloro-1,2,2-trifluoroethane	50.0	48.35		ug/L	97	77 - 129		7	18
1,1-Dichloroethylene	50.0	60.23		ug/L	120	79 - 124		5	17
1,1-Dichloropropene	50.0	49.39		ug/L	99	80 - 122		5	17
1,2,3-Trichlorobenzene	50.0	55.91		ug/L	112	62 - 133		1	25
1,2,3-Trichloropropane	50.0	50.59		ug/L	101	70 - 131		3	19
1,2,4-Trichlorobenzene	50.0	55.72		ug/L	111	63 - 133		0	19
1,2,4-Trimethylbenzene	50.0	53.62		ug/L	107	77 - 126		3	16
1,2-Dibromo-3-Chloropropane	50.0	52.22		ug/L	104	54 - 125		2	24
1,2-Dichlorobenzene	50.0	51.76		ug/L	104	80 - 121		1	15
1,2-Dichloropropene	50.0	49.05		ug/L	98	75 - 120		4	17
1,3,5-Trimethylbenzene	50.0	54.34		ug/L	109	77 - 127		2	17
1,3-Dichlorobenzene	50.0	50.48		ug/L	101	80 - 122		2	15
1,3-Dichloropropane	50.0	55.55		ug/L	111	80 - 125		3	14
1,4-Dichlorobenzene	50.0	51.75		ug/L	104	80 - 120		1	15
2,2-Dichloropropene	50.0	42.29		ug/L	85	43 - 161		3	18
2-Butanone (MEK)	250	291.5		ug/L	117	62 - 133		3	19
2-Chlorotoluene	50.0	51.88		ug/L	104	75 - 126		2	17
2-Hexanone	250	306.2		ug/L	122	60 - 142		4	15
4-Chlorotoluene	50.0	51.93		ug/L	104	75 - 130		1	18
4-Methyl-2-pentanone (MIBK)	250	303.9		ug/L	122	60 - 137		2	17
Acetone	250	287.7		ug/L	115	54 - 145		2	21
Bromobenzene	50.0	53.62		ug/L	107	68 - 130		0	20
Chlorobromomethane	50.0	53.64		ug/L	107	78 - 129		3	17
Dichlorobromomethane	50.0	49.22		ug/L	98	75 - 129		5	18
Bromoform	50.0	49.85		ug/L	100	46 - 145		3	16

TestAmerica Nashville

QC Sample Results

Client: Cardno ERI
Project/Site: Former Jalk Fee

TestAmerica Job ID: 490-12512-1
SDG: 08115513

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: LCSD 490-40239/4

Matrix: Water

Analysis Batch: 40239

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA

Analyte	Spike	LCSD	LCSD	Unit	D	%Rec	Limits	RPD	RPD Limit
	Added	Result	Qualifier						
Bromomethane	50.0	47.72		ug/L	95	41 - 150	2	50	
Carbon disulfide	50.0	46.19		ug/L	92	77 - 126	6	21	
Carbon tetrachloride	50.0	43.23		ug/L	86	64 - 147	2	19	
Chlorobenzene	50.0	52.88		ug/L	106	80 - 120	3	14	
Chlorodibromomethane	50.0	52.16		ug/L	104	69 - 133	0	15	
Chloroethane	50.0	47.32		ug/L	95	72 - 120	3	20	
Chloroform	50.0	49.85		ug/L	100	73 - 129	5	18	
Chloromethane	50.0	48.52		ug/L	97	12 - 150	2	31	
cis-1,2-Dichloroethene	50.0	48.35		ug/L	97	76 - 125	6	17	
cis-1,3-Dichloropropene	50.0	55.68		ug/L	111	74 - 140	1	15	
Dibromomethane	50.0	51.56		ug/L	103	71 - 125	2	16	
Dichlorodifluoromethane	50.0	51.32		ug/L	103	37 - 127	4	18	
Hexachlorobutadiene	50.0	39.13		ug/L	78	49 - 146	1	23	
Isopropylbenzene	50.0	53.46		ug/L	107	80 - 141	2	16	
Methylene Chloride	50.0	53.89		ug/L	108	79 - 123	5	17	
Naphthalene	50.0	58.10		ug/L	116	62 - 138	1	26	
n-Butylbenzene	50.0	55.06		ug/L	110	68 - 132	3	18	
N-Propylbenzene	50.0	51.71		ug/L	103	75 - 129	1	17	
4-Isopropyltoluene	50.0	54.08		ug/L	108	75 - 128	1	16	
Styrene	50.0	55.87		ug/L	112	80 - 127	1	24	
sec-Butylbenzene	50.0	55.48		ug/L	111	76 - 128	2	16	
tert-Butylbenzene	50.0	55.50		ug/L	111	76 - 126	3	16	
Tetrachloroethene	50.0	48.38		ug/L	97	80 - 126	4	16	
trans-1,2-Dichloroethene	50.0	52.52		ug/L	105	79 - 126	8	16	
trans-1,3-Dichloropropene	50.0	51.16		ug/L	102	63 - 134	1	14	
Trichloroethene	50.0	50.30		ug/L	101	80 - 123	1	17	
Trichlorofluoromethane	50.0	42.59		ug/L	85	65 - 124	2	18	
Vinyl chloride	50.0	51.05		ug/L	102	68 - 120	6	17	

Surrogate	LCSD	LCSD	Limits
	%Recovery	Qualifier	
1,2-Dichloroethane-d4 (Surr)	83		70 - 130
4-Bromofluorobenzene (Surr)	102		70 - 130
Dibromofluoromethane (Surr)	95		70 - 130
Toluene-d8 (Surr)	103		70 - 130

Lab Sample ID: MB 490-40427/6

Matrix: Water

Analysis Batch: 40427

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB	MB	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
	Result	Qualifier							
Benzene	<0.500	U	0.500	0.200	ug/L			12/01/12 07:10	1
Toluene	<0.500	U	0.500	0.170	ug/L			12/01/12 07:10	1
Ethylbenzene	<0.500	U	0.500	0.190	ug/L			12/01/12 07:10	1
Xylenes, Total	<0.500	U	0.500	0.180	ug/L			12/01/12 07:10	1
Methyl tert-butyl ether	<1.00	U	1.00	0.120	ug/L			12/01/12 07:10	1
1,2-Dibromoethane (EDB)	<0.500	U	0.500	0.140	ug/L			12/01/12 07:10	1
1,2-Dichloroethane	<0.500	U	0.500	0.200	ug/L			12/01/12 07:10	1
1,1,1,2-Tetrachloroethane	<0.500	U	0.500	0.150	ug/L			12/01/12 07:10	1

TestAmerica Nashville

QC Sample Results

Client: Cardno ERI
Project/Site: Former Jalk Fee

TestAmerica Job ID: 490-12512-1
SDG: 08115513

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: MB 490-40427/6

Matrix: Water

Analysis Batch: 40427

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB	MB	Result	Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane		<0.500	U		0.500	0.190	ug/L			12/01/12 07:10	1
1,1,2,2-Tetrachloroethane		<0.500	U		0.500	0.190	ug/L			12/01/12 07:10	1
1,1,2-Trichloroethane		<0.500	U		0.500	0.190	ug/L			12/01/12 07:10	1
1,1-Dichloroethane		<0.500	U		0.500	0.240	ug/L			12/01/12 07:10	1
1,1,2-Trichloro-1,2,2-trifluoroethane		<1.00	U		1.00	0.330	ug/L			12/01/12 07:10	1
1,1-Dichloroethene		<0.500	U		0.500	0.250	ug/L			12/01/12 07:10	1
1,1-Dichloropropene		<0.500	U		0.500	0.200	ug/L			12/01/12 07:10	1
1,2,3-Trichlorobenzene		<0.500	U		0.500	0.230	ug/L			12/01/12 07:10	1
1,2,3-Trichloropropane		<0.500	U		0.500	0.230	ug/L			12/01/12 07:10	1
1,2,4-Trichlorobenzene		<0.500	U		0.500	0.150	ug/L			12/01/12 07:10	1
1,2,4-Trimethylbenzene		<0.500	U		0.500	0.170	ug/L			12/01/12 07:10	1
1,2-Dibromo-3-Chloropropane		<5.00	U		5.00	4.21	ug/L			12/01/12 07:10	1
1,2-Dichlorobenzene		<0.500	U		0.500	0.190	ug/L			12/01/12 07:10	1
1,2-Dichloropropane		<0.500	U		0.500	0.250	ug/L			12/01/12 07:10	1
1,3,5-Trimethylbenzene		<0.500	U		0.500	0.150	ug/L			12/01/12 07:10	1
1,3-Dichlorobenzene		<0.500	U		0.500	0.180	ug/L			12/01/12 07:10	1
1,3-Dichloropropane		<0.500	U		0.500	0.190	ug/L			12/01/12 07:10	1
1,4-Dichlorobenzene		<0.500	U		0.500	0.130	ug/L			12/01/12 07:10	1
2,2-Dichloropropane		<0.500	U		0.500	0.160	ug/L			12/01/12 07:10	1
2-Butanone (MEK)		<50.0	U		50.0	2.64	ug/L			12/01/12 07:10	1
2-Chlorotoluene		<0.500	U		0.500	0.180	ug/L			12/01/12 07:10	1
2-Hexanone		<10.0	U		10.0	1.28	ug/L			12/01/12 07:10	1
4-Chlorotoluene		<0.500	U		0.500	0.170	ug/L			12/01/12 07:10	1
4-Methyl-2-pentanone (MIBK)		<10.0	U		10.0	0.810	ug/L			12/01/12 07:10	1
Acetone		<50.0	U		50.0	2.66	ug/L			12/01/12 07:10	1
Bromobenzene		<0.500	U		0.500	0.210	ug/L			12/01/12 07:10	1
Chlorobromomethane		<0.500	U		0.500	0.330	ug/L			12/01/12 07:10	1
Dichlorobromomethane		<0.500	U		0.500	0.110	ug/L			12/01/12 07:10	1
Bromoform		<0.500	U		0.500	0.290	ug/L			12/01/12 07:10	1
Bromomethane		<0.500	U		0.500	0.350	ug/L			12/01/12 07:10	1
Carbon disulfide		<0.500	U		0.500	0.220	ug/L			12/01/12 07:10	1
Carbon tetrachloride		<0.500	U		0.500	0.180	ug/L			12/01/12 07:10	1
Chlorobenzene		<0.500	U		0.500	0.180	ug/L			12/01/12 07:10	1
Chlorodibromomethane		<0.500	U		0.500	0.250	ug/L			12/01/12 07:10	1
Chloroethane		<0.500	U		0.500	0.360	ug/L			12/01/12 07:10	1
Chloroform		<0.500	U		0.500	0.230	ug/L			12/01/12 07:10	1
Chloromethane		<0.500	U		0.500	0.300	ug/L			12/01/12 07:10	1
cis-1,2-Dichloroethene		<0.500	U		0.500	0.210	ug/L			12/01/12 07:10	1
cis-1,3-Dichloropropene		<0.500	U		0.500	0.120	ug/L			12/01/12 07:10	1
Dibromomethane		<0.500	U		0.500	0.310	ug/L			12/01/12 07:10	1
Dichlorodifluoromethane		<0.500	U		0.500	0.440	ug/L			12/01/12 07:10	1
Hexachlorobutadiene		0.5554	J		1.00	0.210	ug/L			12/01/12 07:10	1
Isopropylbenzene		<1.00	U		1.00	0.170	ug/L			12/01/12 07:10	1
Methylene Chloride		<5.00	U		5.00	0.160	ug/L			12/01/12 07:10	1
Naphthalene		<5.00	U		5.00	0.210	ug/L			12/01/12 07:10	1
n-Butylbenzene		<0.500	U		0.500	0.240	ug/L			12/01/12 07:10	1
N-Propylbenzene		<0.500	U		0.500	0.170	ug/L			12/01/12 07:10	1
4-Isopropyltoluene		<0.500	U		0.500	0.170	ug/L			12/01/12 07:10	1

TestAmerica Nashville

QC Sample Results

Client: Cardno ERI
Project/Site: Former Jalk Fee

TestAmerica Job ID: 490-12512-1
SDG: 08115513

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: MB 490-40427/6

Matrix: Water

Analysis Batch: 40427

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB	MB	Result	Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Styrene	<0.500	U	0.500		0.200	ug/L				12/01/12 07:10	1
sec-Butylbenzene	<0.500	U			0.500	0.170	ug/L			12/01/12 07:10	1
tert-Butylbenzene	<0.500	U			0.500	0.170	ug/L			12/01/12 07:10	1
Tetrachloroethene	<0.500	U			0.500	0.250	ug/L			12/01/12 07:10	1
trans-1,2-Dichloroethene	<0.500	U			0.500	0.230	ug/L			12/01/12 07:10	1
trans-1,3-Dichloropropene	<0.500	U			0.500	0.110	ug/L			12/01/12 07:10	1
Trichloroethene	<0.500	U			0.500	0.200	ug/L			12/01/12 07:10	1
Trichlorofluoromethane	<0.500	U			0.500	0.210	ug/L			12/01/12 07:10	1
Vinyl chloride	<0.500	U			0.500	0.180	ug/L			12/01/12 07:10	1

MB MB

Surrogate	MB	MB	%Recovery	Qualifier	Limits		Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)		86			70 - 130			12/01/12 07:10	1
4-Bromofluorobenzene (Surr)		121			70 - 130			12/01/12 07:10	1
Dibromofluoromethane (Surr)		97			70 - 130			12/01/12 07:10	1
Toluene-d8 (Surr)		105			70 - 130			12/01/12 07:10	1

Lab Sample ID: LCS 490-40427/3

Matrix: Water

Analysis Batch: 40427

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCSS	LCSS	Unit	D	%Rec	Limits
		Result	Qualifier				
Benzene	50.0	50.72		ug/L		101	80 - 121
Toluene	50.0	50.58		ug/L		101	80 - 126
Ethylbenzene	50.0	50.74		ug/L		101	80 - 130
Xylenes, Total	150	149.2		ug/L		99	80 - 132
Methyl tert-butyl ether	50.0	47.56		ug/L		95	72 - 133
1,2-Dibromoethane (EDB)	50.0	55.29		ug/L		111	80 - 129
1,2-Dichloroethane	50.0	42.62		ug/L		85	77 - 121
1,1,1,2-Tetrachloroethane	50.0	48.93		ug/L		98	74 - 135
1,1,1-Trichloroethane	50.0	43.63		ug/L		87	78 - 135
1,1,2,2-Tetrachloroethane	50.0	64.66		ug/L		129	69 - 131
1,1,2-Trichloroethane	50.0	51.06		ug/L		102	80 - 124
1,1-Dichloroethane	50.0	49.56		ug/L		99	78 - 125
1,1,2-Trichloro-1,2,2-trifluoroethane	50.0	46.48		ug/L		93	77 - 129
1,1-Dichloroethene	50.0	59.79		ug/L		120	79 - 124
1,1-Dichloropropene	50.0	48.59		ug/L		97	80 - 122
1,2,3-Trichlorobenzene	50.0	57.08		ug/L		114	62 - 133
1,2,3-Trichloropropane	50.0	59.32		ug/L		119	70 - 131
1,2,4-Trichlorobenzene	50.0	54.95		ug/L		110	63 - 133
1,2,4-Trimethylbenzene	50.0	63.87 *		ug/L		128	77 - 126
1,2-Dibromo-3-Chloropropane	50.0	54.48		ug/L		109	54 - 125
1,2-Dichlorobenzene	50.0	52.31		ug/L		105	80 - 121
1,2-Dichloropropane	50.0	46.91		ug/L		94	75 - 120
1,3,5-Trimethylbenzene	50.0	64.65 *		ug/L		129	77 - 127
1,3-Dichlorobenzene	50.0	51.39		ug/L		103	80 - 122
1,3-Dichloropropene	50.0	51.65		ug/L		103	80 - 125
1,4-Dichlorobenzene	50.0	50.64		ug/L		101	80 - 120

TestAmerica Nashville

QC Sample Results

Client: Cardno ERI
Project/Site: Former Jalk Fee

TestAmerica Job ID: 490-12512-1
SDG: 08115513

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: LCS 490-40427/3

Matrix: Water

Analysis Batch: 40427

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike	LCS		Unit	D	%Rec	%Rec.
	Added	Result	Qualifier				
2,2-Dichloropropane	50.0	45.62		ug/L		91	43 - 161
2-Butanone (MEK)	250	259.5		ug/L		104	62 - 133
2-Chlorotoluene	50.0	61.40		ug/L		123	75 - 126
2-Hexanone	250	265.2		ug/L		106	60 - 142
4-Chlorotoluene	50.0	62.74		ug/L		125	75 - 130
4-Methyl-2-pentanone (MIBK)	250	279.2		ug/L		112	60 - 137
Acetone	250	245.9		ug/L		98	54 - 145
Bromobenzene	50.0	64.11		ug/L		128	68 - 130
Chlorobromomethane	50.0	52.17		ug/L		104	78 - 129
Dichlorobromomethane	50.0	48.76		ug/L		98	75 - 129
Bromoform	50.0	47.93		ug/L		96	46 - 145
Bromomethane	50.0	42.76		ug/L		86	41 - 150
Carbon disulfide	50.0	45.18		ug/L		90	77 - 126
Carbon tetrachloride	50.0	42.93		ug/L		86	64 - 147
Chlorobenzene	50.0	51.20		ug/L		102	80 - 120
Chlorodibromomethane	50.0	49.56		ug/L		99	69 - 133
Chloroethane	50.0	48.67		ug/L		97	72 - 120
Chloroform	50.0	47.90		ug/L		96	73 - 129
Chloromethane	50.0	45.85		ug/L		92	12 - 150
cis-1,2-Dichloroethene	50.0	47.04		ug/L		94	76 - 125
cis-1,3-Dichloropropene	50.0	54.59		ug/L		109	74 - 140
Dibromomethane	50.0	48.94		ug/L		98	71 - 125
Dichlorodifluoromethane	50.0	48.64		ug/L		97	37 - 127
Hexachlorobutadiene	50.0	40.42		ug/L		81	49 - 146
Isopropylbenzene	50.0	53.15		ug/L		106	80 - 141
Methylene Chloride	50.0	51.54		ug/L		103	79 - 123
Naphthalene	50.0	56.52		ug/L		113	62 - 138
n-Butylbenzene	50.0	54.62		ug/L		109	68 - 132
N-Propylbenzene	50.0	61.80		ug/L		124	75 - 129
4-Isopropyltoluene	50.0	56.17		ug/L		112	75 - 128
Styrene	50.0	55.25		ug/L		111	80 - 127
sec-Butylbenzene	50.0	65.98 *		ug/L		132	76 - 128
tert-Butylbenzene	50.0	66.45 *		ug/L		133	76 - 126
Tetrachloroethene	50.0	47.61		ug/L		95	80 - 126
trans-1,2-Dichloroethene	50.0	50.05		ug/L		100	79 - 126
trans-1,3-Dichloropropene	50.0	49.03		ug/L		98	63 - 134
Trichloroethene	50.0	48.47		ug/L		97	80 - 123
Trichlorofluoromethane	50.0	43.17		ug/L		86	65 - 124
Vinyl chloride	50.0	51.08		ug/L		102	68 - 120

Surrogate	LCS	LCS	Limits
	%Recovery	Qualifier	
1,2-Dichloroethane-d4 (Surr)	81		70 - 130
4-Bromofluorobenzene (Surr)	120		70 - 130
Dibromofluoromethane (Surr)	93		70 - 130
Toluene-d8 (Surr)	102		70 - 130

TestAmerica Nashville

QC Sample Results

Client: Cardno ERI
 Project/Site: Former Jalk Fee

TestAmerica Job ID: 490-12512-1
 SDG: 08115513

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: LCSD 490-40427/4

Matrix: Water

Analysis Batch: 40427

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	Limits	RPD	RPD Limit
Benzene	50.0	49.76		ug/L	100	80 - 121	2	17	
Toluene	50.0	50.43		ug/L	101	80 - 126	0	15	
Ethylbenzene	50.0	50.58		ug/L	101	80 - 130	0	15	
Xylenes, Total	150	151.2		ug/L	101	80 - 132	1	15	
Methyl tert-butyl ether	50.0	48.32		ug/L	97	72 - 133	2	16	
1,2-Dibromoethane (EDB)	50.0	57.22		ug/L	114	80 - 129	3	15	
1,2-Dichloroethane	50.0	43.76		ug/L	88	77 - 121	3	17	
1,1,1,2-Tetrachloroethane	50.0	51.18		ug/L	102	74 - 135	4	16	
1,1,1-Trichloroethane	50.0	42.46		ug/L	85	78 - 135	3	17	
1,1,2,2-Tetrachloroethane	50.0	51.76 *		ug/L	104	69 - 131	22	20	
1,1,2-Trichloroethane	50.0	51.39		ug/L	103	80 - 124	1	15	
1,1-Dichloroethane	50.0	48.92		ug/L	98	78 - 125	1	17	
1,1,2-Trichloro-1,2,2-trifluoroethane	50.0	45.64		ug/L	91	77 - 129	2	18	
1,1-Dichloroethylene	50.0	59.14		ug/L	118	79 - 124	1	17	
1,1-Dichloropropene	50.0	48.86		ug/L	98	80 - 122	1	17	
1,2,3-Trichlorobenzene	50.0	55.66		ug/L	111	62 - 133	3	25	
1,2,3-Trichloropropane	50.0	49.79		ug/L	100	70 - 131	17	19	
1,2,4-Trichlorobenzene	50.0	53.03		ug/L	106	63 - 133	4	19	
1,2,4-Trimethylbenzene	50.0	54.01 *		ug/L	108	77 - 126	17	16	
1,2-Dibromo-3-Chloropropane	50.0	47.81		ug/L	96	54 - 125	13	24	
1,2-Dichlorobenzene	50.0	48.32		ug/L	97	80 - 121	8	15	
1,2-Dichloropropane	50.0	47.99		ug/L	96	75 - 120	2	17	
1,3,5-Trimethylbenzene	50.0	52.91 *		ug/L	106	77 - 127	20	17	
1,3-Dichlorobenzene	50.0	50.23		ug/L	100	80 - 122	2	15	
1,3-Dichloropropane	50.0	53.79		ug/L	108	80 - 125	4	14	
1,4-Dichlorobenzene	50.0	50.19		ug/L	100	80 - 120	1	15	
2,2-Dichloropropane	50.0	43.58		ug/L	87	43 - 161	5	18	
2-Butanone (MEK)	250	259.4		ug/L	104	62 - 133	0	19	
2-Chlorotoluene	50.0	49.39 *		ug/L	99	75 - 126	22	17	
2-Hexanone	250	267.6		ug/L	107	60 - 142	1	15	
4-Chlorotoluene	50.0	51.58 *		ug/L	103	75 - 130	20	18	
4-Methyl-2-pentanone (MIBK)	250	263.5		ug/L	105	60 - 137	6	17	
Acetone	250	257.0		ug/L	103	54 - 145	4	21	
Bromobenzene	50.0	50.04 *		ug/L	100	68 - 130	25	20	
Chlorobromomethane	50.0	50.23		ug/L	100	78 - 129	4	17	
Dichlorobromomethane	50.0	48.58		ug/L	97	75 - 129	0	18	
Bromoform	50.0	52.42		ug/L	105	46 - 145	9	16	
Bromomethane	50.0	50.04		ug/L	100	41 - 150	16	50	
Carbon disulfide	50.0	44.01		ug/L	88	77 - 126	3	21	
Carbon tetrachloride	50.0	42.90		ug/L	86	64 - 147	0	19	
Chlorobenzene	50.0	54.07		ug/L	108	80 - 120	5	14	
Chlorodibromomethane	50.0	53.09		ug/L	106	69 - 133	7	15	
Chloroethane	50.0	51.13		ug/L	102	72 - 120	5	20	
Chloroform	50.0	45.82		ug/L	92	73 - 129	4	18	
Chloromethane	50.0	47.76		ug/L	96	12 - 150	4	31	
cis-1,2-Dichloroethene	50.0	44.27		ug/L	89	76 - 125	6	17	
cis-1,3-Dichloropropene	50.0	56.26		ug/L	113	74 - 140	3	15	

TestAmerica Nashville

QC Sample Results

Client: Cardno ERI
Project/Site: Former Jalk Fee

TestAmerica Job ID: 490-12512-1
SDG: 08115513

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: LCSD 490-40427/4

Matrix: Water

Analysis Batch: 40427

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA

Analyte	Spike	LCSD	LCSD	Unit	D	%Rec	Limits	RPD	RPD Limit
	Added	Result	Qualifier						
Dibromomethane	50.0	52.19		ug/L		104	71 - 125	6	16
Dichlorodifluoromethane	50.0	53.13		ug/L		106	37 - 127	9	18
Hexachlorobutadiene	50.0	41.03		ug/L		82	49 - 146	1	23
Isopropylbenzene	50.0	58.50		ug/L		117	80 - 141	10	16
Methylene Chloride	50.0	51.40		ug/L		103	79 - 123	0	17
Naphthalene	50.0	51.51		ug/L		103	62 - 138	9	26
n-Butylbenzene	50.0	50.88		ug/L		102	68 - 132	7	18
N-Propylbenzene	50.0	52.77		ug/L		106	75 - 129	16	17
4-Isopropyltoluene	50.0	53.14		ug/L		106	75 - 128	6	16
Styrene	50.0	59.35		ug/L		119	80 - 127	7	24
sec-Butylbenzene	50.0	54.11 *		ug/L		108	76 - 128	20	16
tert-Butylbenzene	50.0	54.09 *		ug/L		108	76 - 126	21	16
Tetrachloroethene	50.0	50.39		ug/L		101	80 - 126	6	16
trans-1,2-Dichloroethene	50.0	48.65		ug/L		97	79 - 126	3	16
trans-1,3-Dichloropropene	50.0	<0.500 U *		ug/L		0	63 - 134	200	14
Trichloroethene	50.0	49.24		ug/L		98	80 - 123	2	17
Trichlorofluoromethane	50.0	43.92		ug/L		88	65 - 124	2	18
Vinyl chloride	50.0	52.89		ug/L		106	68 - 120	3	17
<hr/>									
Surrogate	LCSD	LCSD	Limits	Dil Fac	Prepared	Analyzed	Dil Fac	Prepared	Analyzed
	%Recovery	Qualifier							
1,2-Dichloroethane-d4 (Surr)	83		70 - 130						
4-Bromofluorobenzene (Surr)	101		70 - 130						
Dibromofluoromethane (Surr)	90		70 - 130						
Toluene-d8 (Surr)	105		70 - 130						

Method: 8015B GRO LL - Gasoline Range Organics - (GC)

Lab Sample ID: MB 490-39012/13

Matrix: Water

Analysis Batch: 39012

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB	MB	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
	Result	Qualifier							
C4-C12	<50.0	U	50.0	38.0	ug/L			11/27/12 14:01	1
<hr/>									
Surrogate	MB	MB	Limits	Dil Fac	Prepared	Analyzed	Dil Fac	Prepared	Analyzed
	%Recovery	Qualifier							
a,a,a-Trifluorotoluene	86		50 - 150					11/27/12 14:01	1

Lab Sample ID: LCS 490-39012/10

Matrix: Water

Analysis Batch: 39012

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike	LCSD	LCSD	Unit	D	%Rec	Limits	Dil Fac	
	Added	Result	Qualifier						
C4-C12	1000	832.5		ug/L		83	57 - 140		
<hr/>									
Surrogate	LCSD	LCSD	Limits	Dil Fac	Prepared	Analyzed	Dil Fac	Prepared	Analyzed
	%Recovery	Qualifier							
a,a,a-Trifluorotoluene	76		50 - 150					11/27/12 14:01	1

TestAmerica Nashville

QC Sample Results

Client: Cardno ERI
Project/Site: Former Jalk Fee

TestAmerica Job ID: 490-12512-1
SDG: 08115513

Method: 8015B GRO LL - Gasoline Range Organics - (GC) (Continued)

Lab Sample ID: LCSD 490-39012/11

Matrix: Water

Analysis Batch: 39012

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Analyte	Spike	LCSD	LCSD	Unit	D	%Rec	%Rec.	RPD	RPD Limit
	Added	Result	Qualifier				ug/L		
C4-C12	1000	810.3				81	57 - 140	3	35
Surrogate									
<i>a,a,a-Trifluorotoluene</i>	79			50 - 150					

Method: 8015B - Diesel Range Organics (DRO) (GC)

Lab Sample ID: MB 490-38678/1-A

Matrix: Water

Analysis Batch: 39073

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 38678

Analyte	MB	MB	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
	Result	Qualifier							
Diesel Range Organics [C10-C28]	<500	U	500	28.0	ug/L		11/24/12 14:48	11/27/12 18:59	1
ORO C24-C40	<500	U	500	28.0	ug/L		11/24/12 14:48	11/27/12 18:59	1
Surrogate									
<i>o-Terphenyl (Surr)</i>	90		50 - 150				11/24/12 14:48	11/27/12 18:59	1

Lab Sample ID: LCS 490-38678/2-A

Matrix: Water

Analysis Batch: 39073

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 38678

Analyte	Spike	LCS	LCS	Unit	D	%Rec	%Rec.	RPD	RPD Limit
	Added	Result	Qualifier				ug/L		
Diesel Range Organics [C10-C28]	1000	684.1				68	46 - 132		
Surrogate									
<i>o-Terphenyl (Surr)</i>	96		50 - 150						

Lab Sample ID: LCSD 490-38678/3-A

Matrix: Water

Analysis Batch: 39073

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Prep Batch: 38678

Analyte	Spike	LCSD	LCSD	Unit	D	%Rec	%Rec.	RPD	RPD Limit
	Added	Result	Qualifier				ug/L		
Diesel Range Organics [C10-C28]	1000	755.1				76	46 - 132	10	31
Surrogate									
<i>o-Terphenyl (Surr)</i>	100		50 - 150						

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QC Association Summary

Client: Cardno ERI
Project/Site: Former Jalk Fee

TestAmerica Job ID: 490-12512-1
SDG: 08115513

GC/MS VOA

Analysis Batch: 40097

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
490-12512-1	W-88-MMW-04	Total/NA	Ground Water	8260B	
490-12512-2	W-90-MW9A	Total/NA	Ground Water	8260B	
490-12512-3	W-88-MW9B	Total/NA	Ground Water	8260B	
490-12512-4	W-107-MW9C	Total/NA	Ground Water	8260B	
490-12513-B-1 MS	Matrix Spike	Total/NA	Water	8260B	
490-12513-C-1 MSD	Matrix Spike Duplicate	Total/NA	Water	8260B	
LCS 490-40097/3	Lab Control Sample	Total/NA	Water	8260B	
LCSD 490-40097/4	Lab Control Sample Dup	Total/NA	Water	8260B	
MB 490-40097/6	Method Blank	Total/NA	Water	8260B	

Analysis Batch: 40239

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
490-12512-5	QCTB	Total/NA	Water	8260B	
LCS 490-40239/3	Lab Control Sample	Total/NA	Water	8260B	
LCSD 490-40239/4	Lab Control Sample Dup	Total/NA	Water	8260B	
MB 490-40239/6	Method Blank	Total/NA	Water	8260B	

Analysis Batch: 40427

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
490-12512-2	W-90-MW9A	Total/NA	Ground Water	8260B	
LCS 490-40427/3	Lab Control Sample	Total/NA	Water	8260B	
LCSD 490-40427/4	Lab Control Sample Dup	Total/NA	Water	8260B	
MB 490-40427/6	Method Blank	Total/NA	Water	8260B	

GC VOA

Analysis Batch: 39012

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
490-12512-1	W-88-MMW-04	Total/NA	Ground Water	8015B GRO LL	
490-12512-2	W-90-MW9A	Total/NA	Ground Water	8015B GRO LL	
490-12512-3	W-88-MW9B	Total/NA	Ground Water	8015B GRO LL	
490-12512-4	W-107-MW9C	Total/NA	Ground Water	8015B GRO LL	
490-12512-5	QCTB	Total/NA	Water	8015B GRO LL	
LCS 490-39012/10	Lab Control Sample	Total/NA	Water	8015B GRO LL	
LCSD 490-39012/11	Lab Control Sample Dup	Total/NA	Water	8015B GRO LL	
MB 490-39012/13	Method Blank	Total/NA	Water	8015B GRO LL	

GC Semi VOA

Prep Batch: 38678

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
490-12512-1	W-88-MMW-04	Total/NA	Ground Water	3510C	
490-12512-2	W-90-MW9A	Total/NA	Ground Water	3510C	
490-12512-3	W-88-MW9B	Total/NA	Ground Water	3510C	
490-12512-4	W-107-MW9C	Total/NA	Ground Water	3510C	
LCS 490-38678/2-A	Lab Control Sample	Total/NA	Water	3510C	
LCSD 490-38678/3-A	Lab Control Sample Dup	Total/NA	Water	3510C	
MB 490-38678/1-A	Method Blank	Total/NA	Water	3510C	

TestAmerica Nashville

QC Association Summary

Client: Cardno ERI
Project/Site: Former Jalk Fee

TestAmerica Job ID: 490-12512-1
SDG: 08115513

GC Semi VOA (Continued)

Analysis Batch: 39073

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
490-12512-1	W-88-MMW-04	Total/NA	Ground Water	8015B	38678
490-12512-2	W-90-MW9A	Total/NA	Ground Water	8015B	38678
490-12512-3	W-88-MW9B	Total/NA	Ground Water	8015B	38678
490-12512-4	W-107-MW9C	Total/NA	Ground Water	8015B	38678
LCS 490-38678/2-A	Lab Control Sample	Total/NA	Water	8015B	38678
LCSD 490-38678/3-A	Lab Control Sample Dup	Total/NA	Water	8015B	38678
MB 490-38678/1-A	Method Blank	Total/NA	Water	8015B	38678

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Lab Chronicle

Client: Cardno ERI
Project/Site: Former Jalk Fee

TestAmerica Job ID: 490-12512-1
SDG: 08115513

Client Sample ID: W-88-MMW-04

Lab Sample ID: 490-12512-1

Date Collected: 11/17/12 08:52

Matrix: Ground Water

Date Received: 11/24/12 08:10

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B		1	40097	11/30/12 14:55	AF	TAL NSH
Total/NA	Analysis	8015B GRO LL		1	39012	11/27/12 22:34	GM	TAL NSH
Total/NA	Prep	3510C			38678	11/24/12 16:27	CH	TAL NSH
Total/NA	Analysis	8015B		1	39073	11/27/12 22:25	JF	TAL NSH

Client Sample ID: W-90-MW9A

Lab Sample ID: 490-12512-2

Date Collected: 11/17/12 06:11

Matrix: Ground Water

Date Received: 11/24/12 08:10

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B		1	40097	11/30/12 15:26	AF	TAL NSH
Total/NA	Analysis	8260B		10	40427	12/01/12 09:44	AF	TAL NSH
Total/NA	Analysis	8015B GRO LL		1	39012	11/27/12 23:04	GM	TAL NSH
Total/NA	Prep	3510C			38678	11/24/12 16:27	CH	TAL NSH
Total/NA	Analysis	8015B		1	39073	11/27/12 22:44	JF	TAL NSH

Client Sample ID: W-88-MW9B

Lab Sample ID: 490-12512-3

Date Collected: 11/17/12 07:02

Matrix: Ground Water

Date Received: 11/24/12 08:10

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B		1	40097	11/30/12 15:57	AF	TAL NSH
Total/NA	Analysis	8015B GRO LL		1	39012	11/27/12 23:35	GM	TAL NSH
Total/NA	Prep	3510C			38678	11/24/12 16:27	CH	TAL NSH
Total/NA	Analysis	8015B		1	39073	11/27/12 23:03	JF	TAL NSH

Client Sample ID: W-107-MW9C

Lab Sample ID: 490-12512-4

Date Collected: 11/17/12 08:16

Matrix: Ground Water

Date Received: 11/24/12 08:10

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B		1	40097	11/30/12 16:28	AF	TAL NSH
Total/NA	Analysis	8015B GRO LL		1	39012	11/28/12 00:05	GM	TAL NSH
Total/NA	Prep	3510C			38678	11/24/12 16:27	CH	TAL NSH
Total/NA	Analysis	8015B		1	39073	11/27/12 23:22	JF	TAL NSH

Client Sample ID: QCTB

Lab Sample ID: 490-12512-5

Date Collected: 11/17/12 06:00

Matrix: Water

Date Received: 11/24/12 08:10

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B		1	40239	11/30/12 23:07	AF	TAL NSH

TestAmerica Nashville

Lab Chronicle

Client: Cardno ERI
Project/Site: Former Jalk Fee

TestAmerica Job ID: 490-12512-1
SDG: 08115513

Client Sample ID: QCTB

Date Collected: 11/17/12 06:00
Date Received: 11/24/12 08:10

Lab Sample ID: 490-12512-5

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8015B GRO LL		1	39012	11/27/12 16:01	GM	TAL NSH

Laboratory References:

TAL NSH = TestAmerica Nashville, 2960 Foster Creighton Drive, Nashville, TN 37204, TEL (615)726-0177

Method Summary

Client: Cardno ERI

Project/Site: Former Jalk Fee

TestAmerica Job ID: 490-12512-1

SDG: 08115513

Method	Method Description	Protocol	Laboratory
8260B	Volatile Organic Compounds (GC/MS)	SW846	TAL NSH
8015B GRO LL	Gasoline Range Organics - (GC)	SW846	TAL NSH
8015B	Diesel Range Organics (DRO) (GC)	SW846	TAL NSH

Protocol References:

SW846 = "Test Methods For Evaluating Solid Waste, Physical/Chemical Methods", Third Edition, November 1986 And Its Updates.

Laboratory References:

TAL NSH = TestAmerica Nashville, 2960 Foster Creighton Drive, Nashville, TN 37204, TEL (615)726-0177

Certification Summary

Client: Cardno ERI

Project/Site: Former Jalk Fee

TestAmerica Job ID: 490-12512-1

SDG: 08115513

Laboratory: TestAmerica Nashville

Unless otherwise noted, all analytes for this laboratory were covered under each certification below.

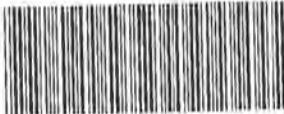
Authority	Program	EPA Region	Certification ID	Expiration Date
California	NELAC	9	1168CA	10-31-13

The following analytes are included in this report, but are not certified under this certification:

Analysis Method	Prep Method	Matrix	Analyte
8015B	3510C	Ground Water	Diesel Range Organics [C10-C28]
8015B	3510C	Ground Water	ORO C24-C40
8015B	3510C	Water	Diesel Range Organics [C10-C28]
8015B	3510C	Water	ORO C24-C40

The following analytes are included in this report, but certification is not offered by the governing authority:

Analysis Method	Prep Method	Matrix	Analyte
8260B		Ground Water	tert-Butylbenzene
8260B		Water	tert-Butylbenzene



COOLER RECEIPT FORM

490-12512 Chain of Custody

Cooler Received/Opened On 11/24/2012@ 8:10

1. Tracking # 5752 (last 4 digits, FedEx)Courier: Fedex IR Gun ID 176101762. Temperature of rep. sample or temp blank when opened: 3.2 Degrees Celsius3. If Item #2 temperature is 0°C or less, was the representative sample or temp blank frozen? YES NO 4. Were custody seals on outside of cooler? YES...NO...NAIf yes, how many and where: 1 Front5. Were the seals intact, signed, and dated correctly? YES...NO...NA6. Were custody papers inside cooler? YES...NO...NAI certify that I opened the cooler and answered questions 1-6 (initial) JH7. Were custody seals on containers: YES NO and Intact YES...NO...NAWere these signed and dated correctly? YES...NO...NA8. Packing mat'l used? Bubblewrap Plastic bag Peanuts Vermiculite Foam Insert Paper Other None9. Cooling process: Ice-pack Ice (direct contact) Dry ice Other None10. Did all containers arrive in good condition (unbroken)? YES...NO...NA11. Were all container labels complete (#, date, signed, pres., etc)? YES...NO...NA12. Did all container labels and tags agree with custody papers? YES...NO...NA13a. Were VOA vials received? YES...NO...NAb. Was there any observable headspace present in any VOA vial? YES...NO...NA14. Was there a Trip Blank in this cooler? YES...NO...NA If multiple coolers, sequence # 14I certify that I unloaded the cooler and answered questions 7-14 (initial) JH

15a. On pres'd bottles, did pH test strips suggest preservation reached the correct pH level? YES...NO...NA

b. Did the bottle labels indicate that the correct preservatives were used YES...NO...NA16. Was residual chlorine present? YES...NO...NAI certify that I checked for chlorine and pH as per SOP and answered questions 15-16 (initial) JH17. Were custody papers properly filled out (ink, signed, etc)? YES...NO...NA18. Did you sign the custody papers in the appropriate place? YES...NO...NA19. Were correct containers used for the analysis requested? YES...NO...NA20. Was sufficient amount of sample sent in each container? YES...NO...NAI certify that I entered this project into LIMS and answered questions 17-20 (initial) JHI certify that I attached a label with the unique LIMS number to each container (initial) JH21. Were there Non-Conformance issues at login? YES... NO Was a PIPE generated? YES... NO...#

COOLER RECEIPT FORM

Cooler Received/Opened On 11/24/2012 @ 08101. Tracking # 5730 (last 4 digits, FedEx)Courier: FedEx IR Gun ID 182904552. Temperature of rep. sample or temp blank when opened: 1.3 Degrees Celsius3. If Item #2 temperature is 0°C or less, was the representative sample or temp blank frozen? YES...NO..NA4. Were custody seals on outside of cooler? (YES)..NO..NAIf yes, how many and where: (1) Front5. Were the seals intact, signed, and dated correctly? YES..NO..NA6. Were custody papers inside cooler? YES..NO..NAI certify that I opened the cooler and answered questions 1-6 (initial) (MM)7. Were custody seals on containers: YES NO and Intact YES..NO..NAWere these signed and dated correctly? YES..NO..NA8. Packing mat'l used? Bubblewrap Plastic bag Peanuts Vermiculite Foam Insert Paper Other None9. Cooling process: Ice Ice-pack Ice (direct contact) Dry ice Other None10. Did all containers arrive in good condition (unbroken)? YES..NO..NA11. Were all container labels complete (#, date, signed, pres., etc)? YES..NO..NA12. Did all container labels and tags agree with custody papers? YES..NO..NA13a. Were VOA vials received? YES..NO..NAb. Was there any observable headspace present in any VOA vial? YES..NO..NA14. Was there a Trip Blank in this cooler? YES..NO..NA If multiple coolers, sequence # 1AI certify that I unloaded the cooler and answered questions 7-14 (initial) (MM)15a. On pres'd bottles, did pH test strips suggest preservation reached the correct pH level? YES..NO..NAb. Did the bottle labels indicate that the correct preservatives were used YES..NO..NA16. Was residual chlorine present? YES..NO..NAI certify that I checked for chlorine and pH as per SOP and answered questions 15-16 (initial) (MM)17. Were custody papers properly filled out (ink, signed, etc)? YES..NO..NA18. Did you sign the custody papers in the appropriate place? YES..NO..NA19. Were correct containers used for the analysis requested? YES..NO..NA20. Was sufficient amount of sample sent in each container? YES..NO..NAI certify that I entered this project into LIMS and answered questions 17-20 (initial) (MM)I certify that I attached a label with the unique LIMS number to each container (initial) (MM)21. Were there Non-Conformance issues at login? YES...NO Was a PIPE generated? YES..NO..#

COOLER RECEIPT FORM

Cooler Received/Opened On 11/24/2012 @ 8:10

1. Tracking # 5741 (last 4 digits, FedEx)

Courier: Fed-ex IR Gun ID 17960358

2. Temperature of rep. sample or temp blank when opened: 0.1 Degrees Celsius

3. If Item #2 temperature is 0°C or less, was the representative sample or temp blank frozen? YES NO...NA

4. Were custody seals on outside of cooler?

YES...NO...NA

If yes, how many and where: 1 front

5. Were the seals intact, signed, and dated correctly?

YES...NO...NA

6. Were custody papers Inside cooler?

YES...NO...NA

I certify that I opened the cooler and answered questions 1-6 (initial) EA7. Were custody seals on containers: YES NO and Intact YES...NO...NA

Were these signed and dated correctly?

YES...NO...NA

8. Packing mat'l used? Bubblewrap Plastic bag Peanuts Vermiculite Foam Insert Paper Other None9. Cooling process: Ice Ice-pack Ice (direct contact) Dry ice Other None

10. Did all containers arrive in good condition (unbroken)?

YES...NO...NA

11. Were all container labels complete (#, date, signed, pres., etc)?

YES...NO...NA

12. Did all container labels and tags agree with custody papers?

YES...NO...NA

13a. Were VOA vials received?

YES...NO...NA

b. Was there any observable headspace present in any VOA vial?

YES...NO...NA

14. Was there a Trip Blank in this cooler? YES NO..NA If multiple coolers, sequence # 14I certify that I unloaded the cooler and answered questions 7-14 (initial) EA

15a. On pres'd bottles, did pH test strips suggest preservation reached the correct pH level? YES..NO..NA

b. Did the bottle labels indicate that the correct preservatives were used

YES...NO...NA

16. Was residual chlorine present?

YES...NO...NA

I certify that I checked for chlorine and pH as per SOP and answered questions 15-16 (initial) EA

17. Were custody papers properly filled out (ink, signed, etc)?

YES...NO...NA

18. Did you sign the custody papers in the appropriate place?

YES...NO...NA

19. Were correct containers used for the analysis requested?

YES...NO...NA

20. Was sufficient amount of sample sent in each container?

YES...NO...NA

I certify that I entered this project into LIMS and answered questions 17-20 (initial) EAI certify that I attached a label with the unique LIMS number to each container (initial) EA

21. Were there Non-Conformance issues at login? YES..NO..Was a PIPE generated? YES..NO..#



THE LEADER IN ENVIRONMENTAL TESTING

Nashville Division

Phone: 615-726-0177

2960 Foster Creighton

Toll Free: 800-765-0980

Nashville, TN 37204

Fax: 615-726-3404



Consultant Name: Cardno ERI

Account #: N/A

PO#: JALK-TA-2012

page 1 of 2

Consultant Address: 4572 Telephone Road, Suite 916

Invoice To: Aaron Thom

Consultant City/State/Zip: Ventura, CA 93003

Report To: Alex Fuentes

ExxonMobil Project Mgr: Aaron Thom

ERI Project #/Activity #: 08115513

Consultant Project Mgr: James Anderson

ExxonMobil Site #: Former Jalk Fee

AFE #: XA.2011.53908

Consultant Telephone Number: (805) 644-4157 x 181802

Fax No.: (805) 644-5610

Site Address: 10607 Norwalk Blvd.

Sampler Name (Print): Alex Chirico

Site City, State, Zip: Santa Fe Springs, CA 90670

Sampler Signature:

Oversight Agency: CRWQCB-LAR

Sample ID	Field Point Name/ Location ID	Date Sampled	Time Sampled	No. of Containers Shipped	Preservative	Matrix	Analyze For:	Loc: 490 12512			RUSH TAT (24 hour)	5-day TAT	Standard 10-day TAT	Due Date of Report											
					Grab	Composite	Field Filtered	Methanol	Sodium Bisulfate	HCl	NaOH	H ₂ SO ₄ Plastic	H ₂ SO ₄ Glass	HNO ₃	Ice	Other	None	Groundwater	Wastewater	Drinking Water	Sludge	Soil	Air	Other (specify):	
W- 88 -MMW-04	MMW-04	11/17/12	0852:17	X						X							X	X							
W- MMW-05	MMW-05	11/17/12	0852:17	X						X								X							
W- MMW06	MMW06	11/17/12	0852:17	X						X								X							
W- MW00	MW00	11/17/12	0852:17	X						X								X							
W- MW01	MW01	11/17/12	0852:17	X						X								X							
W- MW02	MW02	11/17/12	0852:17	X						X								X							
W- MW03	MW03	11/17/12	0852:17	X						X								X							
W- MW04	MW04	11/17/12	0852:17	X						X								X							
W- MW05	MW05	11/17/12	0852:17	X						X								X							
W- MW06	MW06	11/17/12	0852:17	X						X								X							
W- MW07	MW07	11/17/12	0852:17	X						X								X							
W- MW08	MW08	11/17/12	0852:17	X						X								X							
W- MW09	MW09	11/17/12	0852:17	X						X								X							
W- MW10	MW10	11/17/12	0852:17	X						X								X							
W- MW11	MW11	11/17/12	0852:17	X						X								X							
W- MW12	MW12	11/17/12	0852:17	X						X								X							

Comments/Special Instructions:
Exclude oxygenates from 8260B analysis

PLEASE E-MAIL ALL PDF FILES TO

alexander.fuentes@cardno.com and ERI-EIMLABS@eri-us.com
geotracker08@eri-us.com

Laboratory Comments:

Temperature Upon Receipt: 56.5° Y N
Sample Containers Intact? TS Y N
VOA Vials Free of Headspace? 11/20 Y N
QC Deliverables (please circle one)
Level 2
Level 3
Level 4

GLOBAL ID # SL184801463 / ERL

Relinquished by:

Date: 11/17/12

Time: 1107

Received by:

Date: 11/17/12

Time: 1107

Relinquished by:

Date: 11/20/12

Time: 1324

Received by (Lab personnel): Matt O'Neill

Date: 11/20/12

Time: 13:24

Rel: T Seelby

11/20/12 18:20 Tis Sodlun



THE LEADER IN ENVIRONMENTAL TESTING

Nashville Division

Phone: 615-726-0177

2960 Foster Creighton

Toll Free: 800-765-0980

Nashville, TN 37204

Fax: 615-726-3404



Consultant Name: Cardno ERI

Account #: N/A

PO#: JALK-TA-2012

page 2 of 2

Consultant Address: 4572 Telephone Road, Suite 916

Invoice To: Aaron Thom

Consultant City/State/Zip: Ventura, CA 93003

Report To: Alex Fuentes

ExxonMobil Project Mgr: Aaron Thom

ERI Project #/Activity #: 08115513

Consultant Project Mgr: James Anderson

ExxonMobil Site #: Former Jalk Fee

AFE #: XA.2011.53908

Consultant Telephone Number: (805) 644-4157 x 181802

Fax No.: (805) 644-5610

Site Address: 10607 Norwalk Blvd.

Sampler Name (Print): Alex Chancz

Site City, State, Zip: Santa Fe Springs, CA 90670

Sampler Signature:

Oversight Agency: CRWQCB-LAR

Sample ID	Field Point Name/ Location ID	Date Sampled	Time Sampled	No. of Containers Shipped	Preservative	Matrix	Analyze For:	Loc: 490 12512		RUSH TAT (24 hour)	5-day TAT	Standard 10-day TAT	Due Date of Report																			
					Grab	Composite	Field Filtered	Methanol	Sodium Bisulfate	HCl	NaOH	H ₂ SO ₄ Plastic	HNO ₃	Ice	Other	None	Groundwater	Wastewater	Drinking Water	Sediment	Soil	Air	Other (specify):									
W- 90 -MW9A	MW9A	11/17/12	0611	7	X				X					X		X	X															
W- 98 -MW9B	MW9B	11/17/12	0702	7	X				X					X		X	X															
W- 107 -MW9C	MW9C	11/17/12	0706	7	X				X					X		X	X															
W- MW10A	MW10A	11/17/12	0811	2	X				X					X		X	X															
W- MW10B	MW10B	11/17/12	0810	2	X				X					X		X	X															
W- MW10C	MW10C	11/17/12	0814	3	X				X					X		X	X															
QCTB	QCTB	11/17/12	1600	3	X				X					X		X	X															

Comments/Special Instructions:

Exclude oxygenates from 8260B analysis

PLEASE E-MAIL ALL PDF FILES TO

alexander.fuentes@cardno.com and ERI-EIMLABS@eri-us.com

geotracker08@eri-us.com

GLOBAL ID # SL184801463 / ERIL

Relinquished by:

11/17/12 1107

Date

Time

Received by:

Cardno Friday

11/17/12 1107

Date

Time

Relinquished by:

11/20/12 1324

Date

Time

Received by (Lab personnel)

Mark Crum

11/20/12 1324

Date

Time

Level 2

Level 3

Level 4

Site Specific - if yes, please attach pre-schedule w/ TestAmerica

Project Manager or attach specific instructions

Laboratory Comments:

Temperature Upon Receipt: 5.9

Sample Containers Intact? Y N

VOA Vials Free of Headspace? Y N

QC Deliverables (please circle one): 11/20/12 Y N

Level 2

Level 3

Level 4

Site Specific - if yes, please attach pre-schedule w/ TestAmerica

Project Manager or attach specific instructions

Mark Crum Rel. 11/20/12 1324 Trim Solubility 11/20/12 1820 John Cramm 11/24/12 08:10 Temp 3.21.3.001
R.L. Socie-Brown 11/20/12 1820 John Cramm 11/24/12 08:10 Temp 3.21.3.001

Login Sample Receipt Checklist

Client: Cardno ERI

Job Number: 490-12512-1

SDG Number: 08115513

Login Number: 12512

List Source: TestAmerica Nashville

List Number: 1

Creator: Himelick, John

Question	Answer	Comment
Radioactivity wasn't checked or is </= background as measured by a survey meter.	True	
The cooler's custody seal, if present, is intact.	True	
Sample custody seals, if present, are intact.	True	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the containers received and the COC.	True	
Samples are received within Holding Time.	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	N/A	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is <6mm (1/4").	True	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Residual Chlorine Checked.	N/A	

TestAmerica

THE LEADER IN ENVIRONMENTAL TESTING

ANALYTICAL REPORT

TestAmerica Laboratories, Inc.

TestAmerica Nashville

2960 Foster Creighton Drive

Nashville, TN 37204

Tel: (615)726-0177

TestAmerica Job ID: 490-12513-1

TestAmerica Sample Delivery Group: 08115513

Client Project/Site: Former Jalk Fee

For:

Cardno ERI

4572 Telephone Road #916

Ventura, California 93003

Attn: Mr. James Anderson



Authorized for release by:

12/4/2012 4:32:29 PM

Leah Klingensmith

Senior Project Manager

leah.klingensmith@testamericainc.com

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The
Expert

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This report has been electronically signed and authorized by the signatory. Electronic signature is intended to be the legally binding equivalent of a traditionally handwritten signature.

Results relate only to the items tested and the sample(s) as received by the laboratory.

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Sample Summary

Client: Cardno ERI

Project/Site: Former Jalk Fee

TestAmerica Job ID: 490-12513-1

SDG: 08115513

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
490-12513-1	W-91-MMW-05	Ground Water	11/16/12 11:31	11/24/12 08:10
490-12513-2	W-90-MW6A	Ground Water	11/16/12 07:19	11/24/12 08:10
490-12513-3	W-88-MW6B	Ground Water	11/16/12 07:44	11/24/12 08:10
490-12513-4	W-89-MW6C	Ground Water	11/16/12 08:15	11/24/12 08:10
490-12513-5	W-90-MW7A	Ground Water	11/16/12 02:53	11/24/12 08:10
490-12513-6	W-89-MW7B	Ground Water	11/16/12 03:23	11/24/12 08:10
490-12513-7	W-90-MW7C	Ground Water	11/16/12 03:53	11/24/12 08:10
490-12513-8	W-90-MW10A	Ground Water	11/16/12 04:35	11/24/12 08:10
490-12513-9	W-89-MW10B	Ground Water	11/16/12 05:30	11/24/12 08:10
490-12513-10	W-89-MW10C	Ground Water	11/16/12 06:39	11/24/12 08:10
490-12513-11	QCTB	Ground Water	11/16/12 06:00	11/24/12 08:10
490-12513-12	Dup	Ground Water	11/16/12 00:01	11/24/12 08:10

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TestAmerica Nashville

Case Narrative

Client: Cardno ERI
Project/Site: Former Jalk Fee

TestAmerica Job ID: 490-12513-1
SDG: 08115513

Job ID: 490-12513-1

Laboratory: TestAmerica Nashville

Narrative

Job Narrative 490-12513-1

Comments

500mL sample volumes were submitted for the DRO/ORO analysis which yielded elevated reporting limits.

Receipt

The samples were received on 11/24/2012 8:10 AM; the samples arrived in good condition, properly preserved and, where required, on ice. The temperatures of the 3 coolers at receipt time were 1.3° C, 1.5° C and 3.2° C.

GC/MS VOA

Method(s) 8260B: The %RPD of the laboratory control sample (LCS) and laboratory control standard duplicate (LCSD) for preparation batch 40097 exceeded control limits for the following analytes: cis-1,3-Dichloropropene.

Method(s) 8260B: The method blank for batch 40097 contained Hexachlorobutadiene above the method detection limit. This target analyte concentration was less than the reporting limit (RL); therefore, re-extraction and/or re-analysis of samples was not performed.

Method(s) 8260B: The method blank for batch 40239 contained Hexachlorobutadiene, Methylene Chloride above the method detection limit. This target analyte concentration was less than the reporting limit (RL); therefore, re-extraction and/or re-analysis of samples was not performed.

Method(s) 8260B: Insufficient sample volume was available to perform a matrix spike/matrix spike duplicate (MS/MSD) associated with batches 40239, 40427.

Method(s) 8260B: The laboratory control sample (LCS) and / or laboratory control sample duplicate (LCSD) for batch 40427 exceeded control limits for the following analytes: tert-butylbenzene, sec-butylbenzene, 135-Trimethylbenzene, 124-Trimethylbenzene. These analytes were biased high in the LCS and were not detected in the associated samples; therefore, the data have been reported.

Method(s) 8260B: The %RPD of the laboratory control sample (LCS) and laboratory control standard duplicate (LCSD) for preparation batch 40427 exceeded control limits for the following analytes: sec-butylbenzene, tert-butylbenzene, 135-trimethylbenzene, 124-trimethylbenzene, 4-chlorotoluene, bromobenzene, 2-chlorotoluene, trans-1,3-Dichloropropene.

Method(s) 8260B: Dilution analysis was performed past hold time for Tetrachloroethene due to insufficient hold time for the following samples: W-90-MW10A (490-12513-8), Dup (490-12513-12).

No other analytical or quality issues were noted.

GC VOA

Method(s) 8015B GRO LL: Insufficient sample volume was available to perform batch matrix spike/matrix spike duplicate (MS/MSD) associated with batch 38770. The laboratory control sample (LCS) was performed in duplicate to provide precision data for this batch.

No other analytical or quality issues were noted.

GC Semi VOA

Method(s) 8015B: The following samples was analyzed outside of analytical holding time due to received out of holding time: Dup (490-12513-12), W-88-MW6B (490-12513-3), W-89-MW10B (490-12513-9), W-89-MW10C (490-12513-10), W-89-MW6C (490-12513-4), W-89-MW7B (490-12513-6), W-90-MW10A (490-12513-8), W-90-MW6A (490-12513-2), W-90-MW7A (490-12513-5), W-90-MW7C (490-12513-7), W-91-MMW-05 (490-12513-1).

Method(s) 8015B: Insufficient sample volume was available to perform a matrix spike/matrix spike duplicate (MS/MSD) associated with batch 38948.

No other analytical or quality issues were noted.

Organic Prep

Case Narrative

Client: Cardno ERI
Project/Site: Former Jalk Fee

TestAmerica Job ID: 490-12513-1
SDG: 08115513

Job ID: 490-12513-1 (Continued)

Laboratory: TestAmerica Nashville (Continued)

No analytical or quality issues were noted.

VOA Prep

No analytical or quality issues were noted.

Definitions/Glossary

Client: Cardno ERI
Project/Site: Former Jalk Fee

TestAmerica Job ID: 490-12513-1
SDG: 08115513

Qualifiers

GC/MS VOA

Qualifier	Qualifier Description
U	Indicates the analyte was analyzed for but not detected.
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.
*	RPD of the LCS and LCSD exceeds the control limits
B	Compound was found in the blank and sample.
E	Result exceeded calibration range.
H	Sample was prepped or analyzed beyond the specified holding time
*	LCS or LCSD exceeds the control limits

GC VOA

Qualifier	Qualifier Description
U	Indicates the analyte was analyzed for but not detected.

GC Semi VOA

Qualifier	Qualifier Description
H	Sample was prepped or analyzed beyond the specified holding time
U	Indicates the analyte was analyzed for but not detected.
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.

Glossary

Abbreviation

These commonly used abbreviations may or may not be present in this report.

%	Listed under the "D" column to designate that the result is reported on a dry weight basis
%R	Percent Recovery
CNF	Contains no Free Liquid
DER	Duplicate error ratio (normalized absolute difference)
DL, RA, RE, IN	Indicates a Dilution, Reanalysis, Re-extraction, or additional Initial metals/anion analysis of the sample
DLC	Decision level concentration
EDL	Estimated Detection Limit
EPA	United States Environmental Protection Agency
MDA	Minimum detectable activity
MDC	Minimum detectable concentration
MDL	Method Detection Limit
ML	Minimum Level (Dioxin)
ND	Not detected at the reporting limit (or MDL or EDL if shown)
PQL	Practical Quantitation Limit
QC	Quality Control
RER	Relative error ratio
RL	Reporting Limit or Requested Limit (Radiochemistry)
RPD	Relative Percent Difference, a measure of the relative difference between two points
TEF	Toxicity Equivalent Factor (Dioxin)
TEQ	Toxicity Equivalent Quotient (Dioxin)

Client Sample Results

Client: Cardno ERI
 Project/Site: Former Jalk Fee

TestAmerica Job ID: 490-12513-1
 SDG: 08115513

Client Sample ID: W-91-MMW-05

Date Collected: 11/16/12 11:31
 Date Received: 11/24/12 08:10

Lab Sample ID: 490-12513-1
 Matrix: Ground Water

Method: 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.500	U	0.500	0.200	ug/L			11/30/12 09:16	1
Toluene	<0.500	U	0.500	0.170	ug/L			11/30/12 09:16	1
Ethylbenzene	<0.500	U	0.500	0.190	ug/L			11/30/12 09:16	1
Xylenes, Total	<0.500	U	0.500	0.180	ug/L			11/30/12 09:16	1
Methyl tert-butyl ether	<1.00	U	1.00	0.120	ug/L			11/30/12 09:16	1
1,2-Dibromoethane (EDB)	<0.500	U	0.500	0.140	ug/L			11/30/12 09:16	1
1,2-Dichloroethane	4.15		0.500	0.200	ug/L			11/30/12 09:16	1
1,1,1,2-Tetrachloroethane	<0.500	U	0.500	0.150	ug/L			11/30/12 09:16	1
1,1,1-Trichloroethane	0.934		0.500	0.190	ug/L			11/30/12 09:16	1
1,1,2,2-Tetrachloroethane	<0.500	U	0.500	0.190	ug/L			11/30/12 09:16	1
1,1,2-Trichloroethane	0.208	J	0.500	0.190	ug/L			11/30/12 09:16	1
1,1-Dichloroethane	31.3		0.500	0.240	ug/L			11/30/12 09:16	1
1,1,2-Trichloro-1,2,2-trifluoroethane	38.6		1.00	0.330	ug/L			11/30/12 09:16	1
ne									
1,1-Dichloroethene	166		0.500	0.250	ug/L			11/30/12 09:16	1
1,1-Dichloropropene	<0.500	U	0.500	0.200	ug/L			11/30/12 09:16	1
1,2,3-Trichlorobenzene	<0.500	U	0.500	0.230	ug/L			11/30/12 09:16	1
1,2,3-Trichloropropane	<0.500	U	0.500	0.230	ug/L			11/30/12 09:16	1
1,2,4-Trichlorobenzene	<0.500	U	0.500	0.150	ug/L			11/30/12 09:16	1
1,2,4-Trimethylbenzene	<0.500	U	0.500	0.170	ug/L			11/30/12 09:16	1
1,2-Dibromo-3-Chloropropane	<5.00	U	5.00	4.21	ug/L			11/30/12 09:16	1
1,2-Dichlorobenzene	<0.500	U	0.500	0.190	ug/L			11/30/12 09:16	1
1,2-Dichloropropane	0.392	J	0.500	0.250	ug/L			11/30/12 09:16	1
1,3,5-Trimethylbenzene	<0.500	U	0.500	0.150	ug/L			11/30/12 09:16	1
1,3-Dichlorobenzene	<0.500	U	0.500	0.180	ug/L			11/30/12 09:16	1
1,3-Dichloropropane	<0.500	U	0.500	0.190	ug/L			11/30/12 09:16	1
1,4-Dichlorobenzene	<0.500	U	0.500	0.130	ug/L			11/30/12 09:16	1
2,2-Dichloropropane	<0.500	U	0.500	0.160	ug/L			11/30/12 09:16	1
2-Butanone (MEK)	<50.0	U	50.0	2.64	ug/L			11/30/12 09:16	1
2-Chlorotoluene	<0.500	U	0.500	0.180	ug/L			11/30/12 09:16	1
2-Hexanone	<10.0	U	10.0	1.28	ug/L			11/30/12 09:16	1
4-Chlorotoluene	<0.500	U	0.500	0.170	ug/L			11/30/12 09:16	1
4-Methyl-2-pentanone (MIBK)	<10.0	U	10.0	0.810	ug/L			11/30/12 09:16	1
Acetone	<50.0	U	50.0	2.66	ug/L			11/30/12 09:16	1
Bromobenzene	<0.500	U	0.500	0.210	ug/L			11/30/12 09:16	1
Chlorobromomethane	<0.500	U	0.500	0.330	ug/L			11/30/12 09:16	1
Dichlorobromomethane	<0.500	U	0.500	0.110	ug/L			11/30/12 09:16	1
Bromoform	<0.500	U	0.500	0.290	ug/L			11/30/12 09:16	1
Bromomethane	<0.500	U	0.500	0.350	ug/L			11/30/12 09:16	1
Carbon disulfide	<0.500	U	0.500	0.220	ug/L			11/30/12 09:16	1
Carbon tetrachloride	<0.500	U	0.500	0.180	ug/L			11/30/12 09:16	1
Chlorobenzene	<0.500	U	0.500	0.180	ug/L			11/30/12 09:16	1
Chlorodibromomethane	<0.500	U	0.500	0.250	ug/L			11/30/12 09:16	1
Chloroethane	<0.500	U	0.500	0.360	ug/L			11/30/12 09:16	1
Chloroform	9.40		0.500	0.230	ug/L			11/30/12 09:16	1
Chloromethane	<0.500	U	0.500	0.300	ug/L			11/30/12 09:16	1
cis-1,2-Dichloroethene	58.0		0.500	0.210	ug/L			11/30/12 09:16	1
cis-1,3-Dichloropropene	<0.500	U *	0.500	0.120	ug/L			11/30/12 09:16	1
Dibromomethane	<0.500	U	0.500	0.310	ug/L			11/30/12 09:16	1

TestAmerica Nashville

Client Sample Results

Client: Cardno ERI
Project/Site: Former Jalk Fee

TestAmerica Job ID: 490-12513-1
SDG: 08115513

Client Sample ID: W-91-MMW-05

Date Collected: 11/16/12 11:31
Date Received: 11/24/12 08:10

Lab Sample ID: 490-12513-1
Matrix: Ground Water

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Dichlorodifluoromethane	<0.500	U	0.500	0.440	ug/L			11/30/12 09:16	1
Hexachlorobutadiene	0.300	J B	1.00	0.210	ug/L			11/30/12 09:16	1
Isopropylbenzene	<1.00	U	1.00	0.170	ug/L			11/30/12 09:16	1
Methylene Chloride	<5.00	U	5.00	0.160	ug/L			11/30/12 09:16	1
Naphthalene	<5.00	U	5.00	0.210	ug/L			11/30/12 09:16	1
n-Butylbenzene	<0.500	U	0.500	0.240	ug/L			11/30/12 09:16	1
N-Propylbenzene	<0.500	U	0.500	0.170	ug/L			11/30/12 09:16	1
4-Isopropyltoluene	<0.500	U	0.500	0.170	ug/L			11/30/12 09:16	1
Styrene	<0.500	U	0.500	0.200	ug/L			11/30/12 09:16	1
sec-Butylbenzene	<0.500	U	0.500	0.170	ug/L			11/30/12 09:16	1
tert-Butylbenzene	<0.500	U	0.500	0.170	ug/L			11/30/12 09:16	1
Tetrachloroethene	192		0.500	0.250	ug/L			11/30/12 09:16	1
trans-1,2-Dichloroethene	0.590		0.500	0.230	ug/L			11/30/12 09:16	1
trans-1,3-Dichloropropene	<0.500	U	0.500	0.110	ug/L			11/30/12 09:16	1
Trichloroethene	131		0.500	0.200	ug/L			11/30/12 09:16	1
Trichlorofluoromethane	15.1		0.500	0.210	ug/L			11/30/12 09:16	1
Vinyl chloride	<0.500	U	0.500	0.180	ug/L			11/30/12 09:16	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	86		70 - 130					11/30/12 09:16	1
4-Bromofluorobenzene (Surr)	102		70 - 130					11/30/12 09:16	1
Dibromofluoromethane (Surr)	96		70 - 130					11/30/12 09:16	1
Toluene-d8 (Surr)	103		70 - 130					11/30/12 09:16	1

Method: 8015B GRO LL - Gasoline Range Organics - (GC)

Analyte	Result	Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
C4-C12	285		50.0	38.0	ug/L			11/26/12 15:28	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
a,a,a-Trifluorotoluene	95		50 - 150					11/26/12 15:28	1

Method: 8015B - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics [C10-C28]	<909	U H	909	50.9	ug/L		11/26/12 15:16	11/28/12 05:54	1
ORO C24-C40	64.9	J H	909	50.9	ug/L		11/26/12 15:16	11/28/12 05:54	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
o-Terphenyl (Surr)	91		50 - 150				11/26/12 15:16	11/28/12 05:54	1

TestAmerica Nashville

Client Sample Results

Client: Cardno ERI
Project/Site: Former Jalk Fee

TestAmerica Job ID: 490-12513-1
SDG: 08115513

Client Sample ID: W-90-MW6A

Date Collected: 11/16/12 07:19

Date Received: 11/24/12 08:10

Lab Sample ID: 490-12513-2

Matrix: Ground Water

Method: 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.500	U	0.500	0.200	ug/L			11/30/12 09:47	1
Toluene	<0.500	U	0.500	0.170	ug/L			11/30/12 09:47	1
Ethylbenzene	<0.500	U	0.500	0.190	ug/L			11/30/12 09:47	1
Xylenes, Total	<0.500	U	0.500	0.180	ug/L			11/30/12 09:47	1
Methyl tert-butyl ether	0.408	J	1.00	0.120	ug/L			11/30/12 09:47	1
1,2-Dibromoethane (EDB)	<0.500	U	0.500	0.140	ug/L			11/30/12 09:47	1
1,2-Dichloroethane	4.54		0.500	0.200	ug/L			11/30/12 09:47	1
1,1,1,2-Tetrachloroethane	<0.500	U	0.500	0.150	ug/L			11/30/12 09:47	1
1,1,1-Trichloroethane	0.842		0.500	0.190	ug/L			11/30/12 09:47	1
1,1,2,2-Tetrachloroethane	<0.500	U	0.500	0.190	ug/L			11/30/12 09:47	1
1,1,2-Trichloroethane	<0.500	U	0.500	0.190	ug/L			11/30/12 09:47	1
1,1-Dichloroethane	30.1		0.500	0.240	ug/L			11/30/12 09:47	1
1,1,2-Trichloro-1,2,2-trifluoroethane	30.8		1.00	0.330	ug/L			11/30/12 09:47	1
ne									
1,1-Dichloroethene	165		0.500	0.250	ug/L			11/30/12 09:47	1
1,1-Dichloropropene	<0.500	U	0.500	0.200	ug/L			11/30/12 09:47	1
1,2,3-Trichlorobenzene	<0.500	U	0.500	0.230	ug/L			11/30/12 09:47	1
1,2,3-Trichloropropane	<0.500	U	0.500	0.230	ug/L			11/30/12 09:47	1
1,2,4-Trichlorobenzene	<0.500	U	0.500	0.150	ug/L			11/30/12 09:47	1
1,2,4-Trimethylbenzene	0.334	J	0.500	0.170	ug/L			11/30/12 09:47	1
1,2-Dibromo-3-Chloropropane	<5.00	U	5.00	4.21	ug/L			11/30/12 09:47	1
1,2-Dichlorobenzene	<0.500	U	0.500	0.190	ug/L			11/30/12 09:47	1
1,2-Dichloropropane	0.265	J	0.500	0.250	ug/L			11/30/12 09:47	1
1,3,5-Trimethylbenzene	0.205	J	0.500	0.150	ug/L			11/30/12 09:47	1
1,3-Dichlorobenzene	<0.500	U	0.500	0.180	ug/L			11/30/12 09:47	1
1,3-Dichloropropane	<0.500	U	0.500	0.190	ug/L			11/30/12 09:47	1
1,4-Dichlorobenzene	<0.500	U	0.500	0.130	ug/L			11/30/12 09:47	1
2,2-Dichloropropane	<0.500	U	0.500	0.160	ug/L			11/30/12 09:47	1
2-Butanone (MEK)	<50.0	U	50.0	2.64	ug/L			11/30/12 09:47	1
2-Chlorotoluene	<0.500	U	0.500	0.180	ug/L			11/30/12 09:47	1
2-Hexanone	<10.0	U	10.0	1.28	ug/L			11/30/12 09:47	1
4-Chlorotoluene	<0.500	U	0.500	0.170	ug/L			11/30/12 09:47	1
4-Methyl-2-pentanone (MIBK)	<10.0	U	10.0	0.810	ug/L			11/30/12 09:47	1
Acetone	<50.0	U	50.0	2.66	ug/L			11/30/12 09:47	1
Bromobenzene	<0.500	U	0.500	0.210	ug/L			11/30/12 09:47	1
Chlorobromomethane	<0.500	U	0.500	0.330	ug/L			11/30/12 09:47	1
Dichlorobromomethane	<0.500	U	0.500	0.110	ug/L			11/30/12 09:47	1
Bromoform	<0.500	U	0.500	0.290	ug/L			11/30/12 09:47	1
Bromomethane	<0.500	U	0.500	0.350	ug/L			11/30/12 09:47	1
Carbon disulfide	<0.500	U	0.500	0.220	ug/L			11/30/12 09:47	1
Carbon tetrachloride	<0.500	U	0.500	0.180	ug/L			11/30/12 09:47	1
Chlorobenzene	<0.500	U	0.500	0.180	ug/L			11/30/12 09:47	1
Chlorodibromomethane	<0.500	U	0.500	0.250	ug/L			11/30/12 09:47	1
Chloroethane	<0.500	U	0.500	0.360	ug/L			11/30/12 09:47	1
Chloroform	7.73		0.500	0.230	ug/L			11/30/12 09:47	1
Chloromethane	<0.500	U	0.500	0.300	ug/L			11/30/12 09:47	1
cis-1,2-Dichloroethene	60.2		0.500	0.210	ug/L			11/30/12 09:47	1
cis-1,3-Dichloropropene	<0.500	U *	0.500	0.120	ug/L			11/30/12 09:47	1
Dibromomethane	<0.500	U	0.500	0.310	ug/L			11/30/12 09:47	1

TestAmerica Nashville

Client Sample Results

Client: Cardno ERI
Project/Site: Former Jalk Fee

TestAmerica Job ID: 490-12513-1
SDG: 08115513

Client Sample ID: W-90-MW6A

Date Collected: 11/16/12 07:19
Date Received: 11/24/12 08:10

Lab Sample ID: 490-12513-2

Matrix: Ground Water

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Dichlorodifluoromethane	<0.500	U	0.500	0.440	ug/L			11/30/12 09:47	1
Hexachlorobutadiene	<1.00	U	1.00	0.210	ug/L			11/30/12 09:47	1
Isopropylbenzene	<1.00	U	1.00	0.170	ug/L			11/30/12 09:47	1
Methylene Chloride	<5.00	U	5.00	0.160	ug/L			11/30/12 09:47	1
Naphthalene	<5.00	U	5.00	0.210	ug/L			11/30/12 09:47	1
n-Butylbenzene	<0.500	U	0.500	0.240	ug/L			11/30/12 09:47	1
N-Propylbenzene	<0.500	U	0.500	0.170	ug/L			11/30/12 09:47	1
4-Isopropyltoluene	<0.500	U	0.500	0.170	ug/L			11/30/12 09:47	1
Styrene	<0.500	U	0.500	0.200	ug/L			11/30/12 09:47	1
sec-Butylbenzene	<0.500	U	0.500	0.170	ug/L			11/30/12 09:47	1
tert-Butylbenzene	<0.500	U	0.500	0.170	ug/L			11/30/12 09:47	1
Tetrachloroethene	197		5.00	2.50	ug/L			11/30/12 21:35	10
trans-1,2-Dichloroethene	0.645		0.500	0.230	ug/L			11/30/12 09:47	1
trans-1,3-Dichloropropene	<0.500	U	0.500	0.110	ug/L			11/30/12 09:47	1
Trichloroethene	132		0.500	0.200	ug/L			11/30/12 09:47	1
Trichlorofluoromethane	12.8		0.500	0.210	ug/L			11/30/12 09:47	1
Vinyl chloride	<0.500	U	0.500	0.180	ug/L			11/30/12 09:47	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	90		70 - 130		11/30/12 09:47	1
1,2-Dichloroethane-d4 (Surr)	87		70 - 130		11/30/12 21:35	10
4-Bromofluorobenzene (Surr)	100		70 - 130		11/30/12 09:47	1
4-Bromofluorobenzene (Surr)	103		70 - 130		11/30/12 21:35	10
Dibromofluoromethane (Surr)	97		70 - 130		11/30/12 09:47	1
Dibromofluoromethane (Surr)	96		70 - 130		11/30/12 21:35	10
Toluene-d8 (Surr)	103		70 - 130		11/30/12 09:47	1
Toluene-d8 (Surr)	104		70 - 130		11/30/12 21:35	10

Method: 8015B GRO LL - Gasoline Range Organics - (GC)

Analyte	Result	Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
C4-C12	250		50.0	38.0	ug/L			11/26/12 15:58	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
a,a,a-Trifluorotoluene	89		50 - 150					11/26/12 15:58	1

Method: 8015B - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac	
Diesel Range Organics [C10-C28]	<909	U H	909	50.9	ug/L		11/26/12 15:16	11/28/12 06:13	1	
ORO C24-C40	<909	U H	909	50.9	ug/L		11/26/12 15:16	11/28/12 06:13	1	
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac	
o-Terphenyl (Surr)	65		50 - 150					11/26/12 15:16	11/28/12 06:13	1

TestAmerica Nashville

Client Sample Results

Client: Cardno ERI

Project/Site: Former Jalk Fee

TestAmerica Job ID: 490-12513-1

SDG: 08115513

Client Sample ID: W-88-MW6B

Date Collected: 11/16/12 07:44

Date Received: 11/24/12 08:10

Lab Sample ID: 490-12513-3

Matrix: Ground Water

Method: 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	0.445	J	0.500	0.200	ug/L			11/30/12 10:18	1
Toluene	<0.500	U	0.500	0.170	ug/L			11/30/12 10:18	1
Ethylbenzene	<0.500	U	0.500	0.190	ug/L			11/30/12 10:18	1
Xylenes, Total	<0.500	U	0.500	0.180	ug/L			11/30/12 10:18	1
Methyl tert-butyl ether	<1.00	U	1.00	0.120	ug/L			11/30/12 10:18	1
1,2-Dibromoethane (EDB)	<0.500	U	0.500	0.140	ug/L			11/30/12 10:18	1
1,2-Dichloroethane	4.40		0.500	0.200	ug/L			11/30/12 10:18	1
1,1,1,2-Tetrachloroethane	<0.500	U	0.500	0.150	ug/L			11/30/12 10:18	1
1,1,1-Trichloroethane	<0.500	U	0.500	0.190	ug/L			11/30/12 10:18	1
1,1,2,2-Tetrachloroethane	<0.500	U	0.500	0.190	ug/L			11/30/12 10:18	1
1,1,2-Trichloroethane	<0.500	U	0.500	0.190	ug/L			11/30/12 10:18	1
1,1-Dichloroethane	23.8		0.500	0.240	ug/L			11/30/12 10:18	1
1,1,2-Trichloro-1,2,2-trifluoroethane	1.60		1.00	0.330	ug/L			11/30/12 10:18	1
ne									
1,1-Dichloroethene	126		0.500	0.250	ug/L			11/30/12 10:18	1
1,1-Dichloropropene	<0.500	U	0.500	0.200	ug/L			11/30/12 10:18	1
1,2,3-Trichlorobenzene	<0.500	U	0.500	0.230	ug/L			11/30/12 10:18	1
1,2,3-Trichloropropane	<0.500	U	0.500	0.230	ug/L			11/30/12 10:18	1
1,2,4-Trichlorobenzene	<0.500	U	0.500	0.150	ug/L			11/30/12 10:18	1
1,2,4-Trimethylbenzene	<0.500	U	0.500	0.170	ug/L			11/30/12 10:18	1
1,2-Dibromo-3-Chloropropane	<5.00	U	5.00	4.21	ug/L			11/30/12 10:18	1
1,2-Dichlorobenzene	<0.500	U	0.500	0.190	ug/L			11/30/12 10:18	1
1,2-Dichloropropane	<0.500	U	0.500	0.250	ug/L			11/30/12 10:18	1
1,3,5-Trimethylbenzene	<0.500	U	0.500	0.150	ug/L			11/30/12 10:18	1
1,3-Dichlorobenzene	<0.500	U	0.500	0.180	ug/L			11/30/12 10:18	1
1,3-Dichloropropane	<0.500	U	0.500	0.190	ug/L			11/30/12 10:18	1
1,4-Dichlorobenzene	<0.500	U	0.500	0.130	ug/L			11/30/12 10:18	1
2,2-Dichloropropane	<0.500	U	0.500	0.160	ug/L			11/30/12 10:18	1
2-Butanone (MEK)	<50.0	U	50.0	2.64	ug/L			11/30/12 10:18	1
2-Chlorotoluene	<0.500	U	0.500	0.180	ug/L			11/30/12 10:18	1
2-Hexanone	<10.0	U	10.0	1.28	ug/L			11/30/12 10:18	1
4-Chlorotoluene	<0.500	U	0.500	0.170	ug/L			11/30/12 10:18	1
4-Methyl-2-pentanone (MIBK)	<10.0	U	10.0	0.810	ug/L			11/30/12 10:18	1
Acetone	<50.0	U	50.0	2.66	ug/L			11/30/12 10:18	1
Bromobenzene	<0.500	U	0.500	0.210	ug/L			11/30/12 10:18	1
Chlorobromomethane	<0.500	U	0.500	0.330	ug/L			11/30/12 10:18	1
Dichlorobromomethane	<0.500	U	0.500	0.110	ug/L			11/30/12 10:18	1
Bromoform	<0.500	U	0.500	0.290	ug/L			11/30/12 10:18	1
Bromomethane	<0.500	U	0.500	0.350	ug/L			11/30/12 10:18	1
Carbon disulfide	<0.500	U	0.500	0.220	ug/L			11/30/12 10:18	1
Carbon tetrachloride	<0.500	U	0.500	0.180	ug/L			11/30/12 10:18	1
Chlorobenzene	<0.500	U	0.500	0.180	ug/L			11/30/12 10:18	1
Chlorodibromomethane	<0.500	U	0.500	0.250	ug/L			11/30/12 10:18	1
Chloroethane	<0.500	U	0.500	0.360	ug/L			11/30/12 10:18	1
Chloroform	<0.500	U	0.500	0.230	ug/L			11/30/12 10:18	1
Chloromethane	<0.500	U	0.500	0.300	ug/L			11/30/12 10:18	1
cis-1,2-Dichloroethene	82.0		0.500	0.210	ug/L			11/30/12 10:18	1
cis-1,3-Dichloropropene	<0.500	U *	0.500	0.120	ug/L			11/30/12 10:18	1
Dibromomethane	<0.500	U	0.500	0.310	ug/L			11/30/12 10:18	1

TestAmerica Nashville

Client Sample Results

Client: Cardno ERI
Project/Site: Former Jalk Fee

TestAmerica Job ID: 490-12513-1
SDG: 08115513

Client Sample ID: W-88-MW6B

Lab Sample ID: 490-12513-3

Date Collected: 11/16/12 07:44
Date Received: 11/24/12 08:10

Matrix: Ground Water

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Dichlorodifluoromethane	<0.500	U	0.500	0.440	ug/L			11/30/12 10:18	1
Hexachlorobutadiene	<1.00	U	1.00	0.210	ug/L			11/30/12 10:18	1
Isopropylbenzene	<1.00	U	1.00	0.170	ug/L			11/30/12 10:18	1
Methylene Chloride	<5.00	U	5.00	0.160	ug/L			11/30/12 10:18	1
Naphthalene	<5.00	U	5.00	0.210	ug/L			11/30/12 10:18	1
n-Butylbenzene	<0.500	U	0.500	0.240	ug/L			11/30/12 10:18	1
N-Propylbenzene	<0.500	U	0.500	0.170	ug/L			11/30/12 10:18	1
4-Isopropyltoluene	<0.500	U	0.500	0.170	ug/L			11/30/12 10:18	1
Styrene	<0.500	U	0.500	0.200	ug/L			11/30/12 10:18	1
sec-Butylbenzene	<0.500	U	0.500	0.170	ug/L			11/30/12 10:18	1
tert-Butylbenzene	<0.500	U	0.500	0.170	ug/L			11/30/12 10:18	1
Tetrachloroethene	1480		25.0	12.5	ug/L			11/30/12 22:05	50
trans-1,2-Dichloroethene	2.01		0.500	0.230	ug/L			11/30/12 10:18	1
trans-1,3-Dichloropropene	<0.500	U	0.500	0.110	ug/L			11/30/12 10:18	1
Trichloroethene	255		25.0	10.0	ug/L			11/30/12 22:05	50
Trichlorofluoromethane	<0.500	U	0.500	0.210	ug/L			11/30/12 10:18	1
Vinyl chloride	1.97		0.500	0.180	ug/L			11/30/12 10:18	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	90		70 - 130		11/30/12 10:18	1
1,2-Dichloroethane-d4 (Surr)	91		70 - 130		11/30/12 22:05	50
4-Bromofluorobenzene (Surr)	99		70 - 130		11/30/12 10:18	1
4-Bromofluorobenzene (Surr)	103		70 - 130		11/30/12 22:05	50
Dibromofluoromethane (Surr)	98		70 - 130		11/30/12 10:18	1
Dibromofluoromethane (Surr)	97		70 - 130		11/30/12 22:05	50
Toluene-d8 (Surr)	104		70 - 130		11/30/12 10:18	1
Toluene-d8 (Surr)	104		70 - 130		11/30/12 22:05	50

Method: 8015B GRO LL - Gasoline Range Organics - (GC)

Analyte	Result	Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
C4-C12	712		50.0	38.0	ug/L			11/26/12 16:28	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
a,a,a-Trifluorotoluene	78		50 - 150					11/26/12 16:28	1

Method: 8015B - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics [C10-C28]	584	J H	909	50.9	ug/L		11/26/12 15:16	11/28/12 06:31	1
ORO C24-C40	640	J H	909	50.9	ug/L		11/26/12 15:16	11/28/12 06:31	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
o-Terphenyl (Surr)	78		50 - 150				11/26/12 15:16	11/28/12 06:31	1

TestAmerica Nashville

Client Sample Results

Client: Cardno ERI
Project/Site: Former Jalk Fee

TestAmerica Job ID: 490-12513-1
SDG: 08115513

Client Sample ID: W-89-MW6C

Date Collected: 11/16/12 08:15

Date Received: 11/24/12 08:10

Lab Sample ID: 490-12513-4

Matrix: Ground Water

Method: 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.500	U	0.500	0.200	ug/L			11/30/12 10:49	1
Toluene	<0.500	U	0.500	0.170	ug/L			11/30/12 10:49	1
Ethylbenzene	<0.500	U	0.500	0.190	ug/L			11/30/12 10:49	1
Xylenes, Total	<0.500	U	0.500	0.180	ug/L			11/30/12 10:49	1
Methyl tert-butyl ether	<1.00	U	1.00	0.120	ug/L			11/30/12 10:49	1
1,2-Dibromoethane (EDB)	<0.500	U	0.500	0.140	ug/L			11/30/12 10:49	1
1,2-Dichloroethane	2.07		0.500	0.200	ug/L			11/30/12 10:49	1
1,1,1,2-Tetrachloroethane	<0.500	U	0.500	0.150	ug/L			11/30/12 10:49	1
1,1,1-Trichloroethane	<0.500	U	0.500	0.190	ug/L			11/30/12 10:49	1
1,1,2,2-Tetrachloroethane	<0.500	U	0.500	0.190	ug/L			11/30/12 10:49	1
1,1,2-Trichloroethane	<0.500	U	0.500	0.190	ug/L			11/30/12 10:49	1
1,1-Dichloroethane	11.4		0.500	0.240	ug/L			11/30/12 10:49	1
1,1,2-Trichloro-1,2,2-trifluoroethane	<1.00	U	1.00	0.330	ug/L			11/30/12 10:49	1
1,1-Dichloroethene	38.5		0.500	0.250	ug/L			11/30/12 10:49	1
1,1-Dichloropropene	<0.500	U	0.500	0.200	ug/L			11/30/12 10:49	1
1,2,3-Trichlorobenzene	<0.500	U	0.500	0.230	ug/L			11/30/12 10:49	1
1,2,3-Trichloropropane	<0.500	U	0.500	0.230	ug/L			11/30/12 10:49	1
1,2,4-Trichlorobenzene	<0.500	U	0.500	0.150	ug/L			11/30/12 10:49	1
1,2,4-Trimethylbenzene	<0.500	U	0.500	0.170	ug/L			11/30/12 10:49	1
1,2-Dibromo-3-Chloropropane	<5.00	U	5.00	4.21	ug/L			11/30/12 10:49	1
1,2-Dichlorobenzene	<0.500	U	0.500	0.190	ug/L			11/30/12 10:49	1
1,2-Dichloropropane	0.346 J		0.500	0.250	ug/L			11/30/12 10:49	1
1,3,5-Trimethylbenzene	<0.500	U	0.500	0.150	ug/L			11/30/12 10:49	1
1,3-Dichlorobenzene	<0.500	U	0.500	0.180	ug/L			11/30/12 10:49	1
1,3-Dichloropropane	<0.500	U	0.500	0.190	ug/L			11/30/12 10:49	1
1,4-Dichlorobenzene	<0.500	U	0.500	0.130	ug/L			11/30/12 10:49	1
2,2-Dichloropropane	<0.500	U	0.500	0.160	ug/L			11/30/12 10:49	1
2-Butanone (MEK)	<50.0	U	50.0	2.64	ug/L			11/30/12 10:49	1
2-Chlorotoluene	<0.500	U	0.500	0.180	ug/L			11/30/12 10:49	1
2-Hexanone	<10.0	U	10.0	1.28	ug/L			11/30/12 10:49	1
4-Chlorotoluene	<0.500	U	0.500	0.170	ug/L			11/30/12 10:49	1
4-Methyl-2-pentanone (MIBK)	<10.0	U	10.0	0.810	ug/L			11/30/12 10:49	1
Acetone	<50.0	U	50.0	2.66	ug/L			11/30/12 10:49	1
Bromobenzene	<0.500	U	0.500	0.210	ug/L			11/30/12 10:49	1
Chlorobromomethane	<0.500	U	0.500	0.330	ug/L			11/30/12 10:49	1
Dichlorobromomethane	<0.500	U	0.500	0.110	ug/L			11/30/12 10:49	1
Bromoform	<0.500	U	0.500	0.290	ug/L			11/30/12 10:49	1
Bromomethane	<0.500	U	0.500	0.350	ug/L			11/30/12 10:49	1
Carbon disulfide	<0.500	U	0.500	0.220	ug/L			11/30/12 10:49	1
Carbon tetrachloride	<0.500	U	0.500	0.180	ug/L			11/30/12 10:49	1
Chlorobenzene	<0.500	U	0.500	0.180	ug/L			11/30/12 10:49	1
Chlorodibromomethane	<0.500	U	0.500	0.250	ug/L			11/30/12 10:49	1
Chloroethane	<0.500	U	0.500	0.360	ug/L			11/30/12 10:49	1
Chloroform	<0.500	U	0.500	0.230	ug/L			11/30/12 10:49	1
Chloromethane	<0.500	U	0.500	0.300	ug/L			11/30/12 10:49	1
cis-1,2-Dichloroethene	56.3		0.500	0.210	ug/L			11/30/12 10:49	1
cis-1,3-Dichloropropene	<0.500	U *	0.500	0.120	ug/L			11/30/12 10:49	1
Dibromomethane	<0.500	U	0.500	0.310	ug/L			11/30/12 10:49	1
Dichlorodifluoromethane	<0.500	U	0.500	0.440	ug/L			11/30/12 10:49	1

TestAmerica Nashville

Client Sample Results

Client: Cardno ERI
Project/Site: Former Jalk Fee

TestAmerica Job ID: 490-12513-1
SDG: 08115513

Client Sample ID: W-89-MW6C

Date Collected: 11/16/12 08:15

Date Received: 11/24/12 08:10

Lab Sample ID: 490-12513-4

Matrix: Ground Water

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Hexachlorobutadiene	<1.00	U	1.00	0.210	ug/L			11/30/12 10:49	1
Isopropylbenzene	<1.00	U	1.00	0.170	ug/L			11/30/12 10:49	1
Methylene Chloride	<5.00	U	5.00	0.160	ug/L			11/30/12 10:49	1
Naphthalene	<5.00	U	5.00	0.210	ug/L			11/30/12 10:49	1
n-Butylbenzene	<0.500	U	0.500	0.240	ug/L			11/30/12 10:49	1
N-Propylbenzene	<0.500	U	0.500	0.170	ug/L			11/30/12 10:49	1
4-Isopropyltoluene	<0.500	U	0.500	0.170	ug/L			11/30/12 10:49	1
Styrene	<0.500	U	0.500	0.200	ug/L			11/30/12 10:49	1
sec-Butylbenzene	<0.500	U	0.500	0.170	ug/L			11/30/12 10:49	1
tert-Butylbenzene	<0.500	U	0.500	0.170	ug/L			11/30/12 10:49	1
Tetrachloroethene	192		5.00	2.50	ug/L			11/30/12 22:36	10
trans-1,2-Dichloroethene	2.32		0.500	0.230	ug/L			11/30/12 10:49	1
trans-1,3-Dichloropropene	<0.500	U	0.500	0.110	ug/L			11/30/12 10:49	1
Trichloroethene	66.2		0.500	0.200	ug/L			11/30/12 10:49	1
Trichlorofluoromethane	<0.500	U	0.500	0.210	ug/L			11/30/12 10:49	1
Vinyl chloride	5.23		0.500	0.180	ug/L			11/30/12 10:49	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	91		70 - 130					11/30/12 10:49	1
1,2-Dichloroethane-d4 (Surr)	87		70 - 130					11/30/12 22:36	10
4-Bromofluorobenzene (Surr)	102		70 - 130					11/30/12 10:49	1
4-Bromofluorobenzene (Surr)	106		70 - 130					11/30/12 22:36	10
Dibromofluoromethane (Surr)	96		70 - 130					11/30/12 10:49	1
Dibromofluoromethane (Surr)	96		70 - 130					11/30/12 22:36	10
Toluene-d8 (Surr)	101		70 - 130					11/30/12 10:49	1
Toluene-d8 (Surr)	104		70 - 130					11/30/12 22:36	10

Method: 8015B GRO LL - Gasoline Range Organics - (GC)

Analyte	Result	Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
C4-C12	198		50.0	38.0	ug/L			11/26/12 16:59	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
a,a,a-Trifluorotoluene	80		50 - 150					11/26/12 16:59	1

Method: 8015B - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics [C10-C28]	574	J H	909	50.9	ug/L		11/26/12 15:16	11/28/12 06:50	1
ORO C24-C40	705	J H	909	50.9	ug/L		11/26/12 15:16	11/28/12 06:50	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
o-Terphenyl (Surr)	74		50 - 150				11/26/12 15:16	11/28/12 06:50	1

TestAmerica Nashville

Client Sample Results

Client: Cardno ERI
 Project/Site: Former Jalk Fee

TestAmerica Job ID: 490-12513-1
 SDG: 08115513

Client Sample ID: W-90-MW7A

Date Collected: 11/16/12 02:53

Date Received: 11/24/12 08:10

Lab Sample ID: 490-12513-5

Matrix: Ground Water

Method: 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.500	U	0.500	0.200	ug/L			11/30/12 11:19	1
Toluene	<0.500	U	0.500	0.170	ug/L			11/30/12 11:19	1
Ethylbenzene	<0.500	U	0.500	0.190	ug/L			11/30/12 11:19	1
Xylenes, Total	<0.500	U	0.500	0.180	ug/L			11/30/12 11:19	1
Methyl tert-butyl ether	<1.00	U	1.00	0.120	ug/L			11/30/12 11:19	1
1,2-Dibromoethane (EDB)	<0.500	U	0.500	0.140	ug/L			11/30/12 11:19	1
1,2-Dichloroethane	3.66		0.500	0.200	ug/L			11/30/12 11:19	1
1,1,1,2-Tetrachloroethane	<0.500	U	0.500	0.150	ug/L			11/30/12 11:19	1
1,1,1-Trichloroethane	0.632		0.500	0.190	ug/L			11/30/12 11:19	1
1,1,2,2-Tetrachloroethane	<0.500	U	0.500	0.190	ug/L			11/30/12 11:19	1
1,1,2-Trichloroethane	<0.500	U	0.500	0.190	ug/L			11/30/12 11:19	1
1,1-Dichloroethane	24.0		0.500	0.240	ug/L			11/30/12 11:19	1
1,1,2-Trichloro-1,2,2-trifluoroethane	26.4		1.00	0.330	ug/L			11/30/12 11:19	1
ne									
1,1-Dichloroethene	123		0.500	0.250	ug/L			11/30/12 11:19	1
1,1-Dichloropropene	<0.500	U	0.500	0.200	ug/L			11/30/12 11:19	1
1,2,3-Trichlorobenzene	<0.500	U	0.500	0.230	ug/L			11/30/12 11:19	1
1,2,3-Trichloropropane	<0.500	U	0.500	0.230	ug/L			11/30/12 11:19	1
1,2,4-Trichlorobenzene	<0.500	U	0.500	0.150	ug/L			11/30/12 11:19	1
1,2,4-Trimethylbenzene	0.247 J		0.500	0.170	ug/L			11/30/12 11:19	1
1,2-Dibromo-3-Chloropropane	<5.00	U	5.00	4.21	ug/L			11/30/12 11:19	1
1,2-Dichlorobenzene	<0.500	U	0.500	0.190	ug/L			11/30/12 11:19	1
1,2-Dichloropropane	<0.500	U	0.500	0.250	ug/L			11/30/12 11:19	1
1,3,5-Trimethylbenzene	<0.500	U	0.500	0.150	ug/L			11/30/12 11:19	1
1,3-Dichlorobenzene	<0.500	U	0.500	0.180	ug/L			11/30/12 11:19	1
1,3-Dichloropropane	<0.500	U	0.500	0.190	ug/L			11/30/12 11:19	1
1,4-Dichlorobenzene	<0.500	U	0.500	0.130	ug/L			11/30/12 11:19	1
2,2-Dichloropropane	<0.500	U	0.500	0.160	ug/L			11/30/12 11:19	1
2-Butanone (MEK)	<50.0	U	50.0	2.64	ug/L			11/30/12 11:19	1
2-Chlorotoluene	<0.500	U	0.500	0.180	ug/L			11/30/12 11:19	1
2-Hexanone	<10.0	U	10.0	1.28	ug/L			11/30/12 11:19	1
4-Chlorotoluene	<0.500	U	0.500	0.170	ug/L			11/30/12 11:19	1
4-Methyl-2-pentanone (MIBK)	<10.0	U	10.0	0.810	ug/L			11/30/12 11:19	1
Acetone	<50.0	U	50.0	2.66	ug/L			11/30/12 11:19	1
Bromobenzene	<0.500	U	0.500	0.210	ug/L			11/30/12 11:19	1
Chlorobromomethane	<0.500	U	0.500	0.330	ug/L			11/30/12 11:19	1
Dichlorobromomethane	<0.500	U	0.500	0.110	ug/L			11/30/12 11:19	1
Bromoform	<0.500	U	0.500	0.290	ug/L			11/30/12 11:19	1
Bromomethane	<0.500	U	0.500	0.350	ug/L			11/30/12 11:19	1
Carbon disulfide	<0.500	U	0.500	0.220	ug/L			11/30/12 11:19	1
Carbon tetrachloride	<0.500	U	0.500	0.180	ug/L			11/30/12 11:19	1
Chlorobenzene	<0.500	U	0.500	0.180	ug/L			11/30/12 11:19	1
Chlorodibromomethane	<0.500	U	0.500	0.250	ug/L			11/30/12 11:19	1
Chloroethane	<0.500	U	0.500	0.360	ug/L			11/30/12 11:19	1
Chloroform	6.75		0.500	0.230	ug/L			11/30/12 11:19	1
Chloromethane	<0.500	U	0.500	0.300	ug/L			11/30/12 11:19	1
cis-1,2-Dichloroethene	47.0		0.500	0.210	ug/L			11/30/12 11:19	1
cis-1,3-Dichloropropene	<0.500	U *	0.500	0.120	ug/L			11/30/12 11:19	1
Dibromomethane	<0.500	U	0.500	0.310	ug/L			11/30/12 11:19	1

TestAmerica Nashville

Client Sample Results

Client: Cardno ERI
 Project/Site: Former Jalk Fee

TestAmerica Job ID: 490-12513-1
 SDG: 08115513

Client Sample ID: W-90-MW7A

Lab Sample ID: 490-12513-5

Date Collected: 11/16/12 02:53
 Date Received: 11/24/12 08:10

Matrix: Ground Water

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Dichlorodifluoromethane	<0.500	U	0.500	0.440	ug/L			11/30/12 11:19	1
Hexachlorobutadiene	<1.00	U	1.00	0.210	ug/L			11/30/12 11:19	1
Isopropylbenzene	<1.00	U	1.00	0.170	ug/L			11/30/12 11:19	1
Methylene Chloride	<5.00	U	5.00	0.160	ug/L			11/30/12 11:19	1
Naphthalene	<5.00	U	5.00	0.210	ug/L			11/30/12 11:19	1
n-Butylbenzene	<0.500	U	0.500	0.240	ug/L			11/30/12 11:19	1
N-Propylbenzene	<0.500	U	0.500	0.170	ug/L			11/30/12 11:19	1
4-Isopropyltoluene	<0.500	U	0.500	0.170	ug/L			11/30/12 11:19	1
Styrene	<0.500	U	0.500	0.200	ug/L			11/30/12 11:19	1
sec-Butylbenzene	<0.500	U	0.500	0.170	ug/L			11/30/12 11:19	1
tert-Butylbenzene	<0.500	U	0.500	0.170	ug/L			11/30/12 11:19	1
Tetrachloroethene	161		0.500	0.250	ug/L			11/30/12 11:19	1
trans-1,2-Dichloroethene	0.656		0.500	0.230	ug/L			11/30/12 11:19	1
trans-1,3-Dichloropropene	<0.500	U	0.500	0.110	ug/L			11/30/12 11:19	1
Trichloroethene	106		0.500	0.200	ug/L			11/30/12 11:19	1
Trichlorofluoromethane	12.2		0.500	0.210	ug/L			11/30/12 11:19	1
Vinyl chloride	<0.500	U	0.500	0.180	ug/L			11/30/12 11:19	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	92		70 - 130		11/30/12 11:19	1
4-Bromofluorobenzene (Surr)	99		70 - 130		11/30/12 11:19	1
Dibromofluoromethane (Surr)	96		70 - 130		11/30/12 11:19	1
Toluene-d8 (Surr)	100		70 - 130		11/30/12 11:19	1

Method: 8015B GRO LL - Gasoline Range Organics - (GC)

Analyte	Result	Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
C4-C12	212		50.0	38.0	ug/L			11/26/12 17:29	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
a,a,a-Trifluorotoluene	76		50 - 150					11/26/12 17:29	1

Method: 8015B - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics [C10-C28]	78.4	J H	909	50.9	ug/L		11/26/12 15:16	11/28/12 07:08	1
ORO C24-C40	79.3	J H	909	50.9	ug/L		11/26/12 15:16	11/28/12 07:08	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
o-Terphenyl (Surr)	76		50 - 150				11/26/12 15:16	11/28/12 07:08	1

TestAmerica Nashville

Client Sample Results

Client: Cardno ERI
Project/Site: Former Jalk Fee

TestAmerica Job ID: 490-12513-1
SDG: 08115513

Client Sample ID: W-89-MW7B

Date Collected: 11/16/12 03:23
Date Received: 11/24/12 08:10

Lab Sample ID: 490-12513-6

Matrix: Ground Water

Method: 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	0.376	J	0.500	0.200	ug/L			11/30/12 11:50	1
Toluene	0.338	J	0.500	0.170	ug/L			11/30/12 11:50	1
Ethylbenzene	<0.500	U	0.500	0.190	ug/L			11/30/12 11:50	1
Xylenes, Total	<0.500	U	0.500	0.180	ug/L			11/30/12 11:50	1
Methyl tert-butyl ether	<1.00	U	1.00	0.120	ug/L			11/30/12 11:50	1
1,2-Dibromoethane (EDB)	<0.500	U	0.500	0.140	ug/L			11/30/12 11:50	1
1,2-Dichloroethane	3.49		0.500	0.200	ug/L			11/30/12 11:50	1
1,1,1,2-Tetrachloroethane	<0.500	U	0.500	0.150	ug/L			11/30/12 11:50	1
1,1,1-Trichloroethane	0.209	J	0.500	0.190	ug/L			11/30/12 11:50	1
1,1,2,2-Tetrachloroethane	<0.500	U	0.500	0.190	ug/L			11/30/12 11:50	1
1,1,2-Trichloroethane	<0.500	U	0.500	0.190	ug/L			11/30/12 11:50	1
1,1-Dichloroethane	19.9		0.500	0.240	ug/L			11/30/12 11:50	1
1,1,2-Trichloro-1,2,2-trifluoroethane	3.47		1.00	0.330	ug/L			11/30/12 11:50	1
1,1-Dichloroethene	75.0		0.500	0.250	ug/L			11/30/12 11:50	1
1,1-Dichloropropene	<0.500	U	0.500	0.200	ug/L			11/30/12 11:50	1
1,2,3-Trichlorobenzene	<0.500	U	0.500	0.230	ug/L			11/30/12 11:50	1
1,2,3-Trichloropropane	<0.500	U	0.500	0.230	ug/L			11/30/12 11:50	1
1,2,4-Trichlorobenzene	<0.500	U	0.500	0.150	ug/L			11/30/12 11:50	1
1,2,4-Trimethylbenzene	0.201	J	0.500	0.170	ug/L			11/30/12 11:50	1
1,2-Dibromo-3-Chloropropane	<5.00	U	5.00	4.21	ug/L			11/30/12 11:50	1
1,2-Dichlorobenzene	<0.500	U	0.500	0.190	ug/L			11/30/12 11:50	1
1,2-Dichloropropane	<0.500	U	0.500	0.250	ug/L			11/30/12 11:50	1
1,3,5-Trimethylbenzene	<0.500	U	0.500	0.150	ug/L			11/30/12 11:50	1
1,3-Dichlorobenzene	<0.500	U	0.500	0.180	ug/L			11/30/12 11:50	1
1,3-Dichloropropane	<0.500	U	0.500	0.190	ug/L			11/30/12 11:50	1
1,4-Dichlorobenzene	<0.500	U	0.500	0.130	ug/L			11/30/12 11:50	1
2,2-Dichloropropane	<0.500	U	0.500	0.160	ug/L			11/30/12 11:50	1
2-Butanone (MEK)	20.4	J	50.0	2.64	ug/L			11/30/12 11:50	1
2-Chlorotoluene	<0.500	U	0.500	0.180	ug/L			11/30/12 11:50	1
2-Hexanone	<10.0	U	10.0	1.28	ug/L			11/30/12 11:50	1
4-Chlorotoluene	<0.500	U	0.500	0.170	ug/L			11/30/12 11:50	1
4-Methyl-2-pentanone (MIBK)	<10.0	U	10.0	0.810	ug/L			11/30/12 11:50	1
Acetone	<50.0	U	50.0	2.66	ug/L			11/30/12 11:50	1
Bromobenzene	<0.500	U	0.500	0.210	ug/L			11/30/12 11:50	1
Chlorobromomethane	<0.500	U	0.500	0.330	ug/L			11/30/12 11:50	1
Dichlorobromomethane	<0.500	U	0.500	0.110	ug/L			11/30/12 11:50	1
Bromoform	<0.500	U	0.500	0.290	ug/L			11/30/12 11:50	1
Bromomethane	<0.500	U	0.500	0.350	ug/L			11/30/12 11:50	1
Carbon disulfide	<0.500	U	0.500	0.220	ug/L			11/30/12 11:50	1
Carbon tetrachloride	<0.500	U	0.500	0.180	ug/L			11/30/12 11:50	1
Chlorobenzene	<0.500	U	0.500	0.180	ug/L			11/30/12 11:50	1
Chlorodibromomethane	<0.500	U	0.500	0.250	ug/L			11/30/12 11:50	1
Chloroethane	<0.500	U	0.500	0.360	ug/L			11/30/12 11:50	1
Chloroform	1.52		0.500	0.230	ug/L			11/30/12 11:50	1
Chloromethane	<0.500	U	0.500	0.300	ug/L			11/30/12 11:50	1
cis-1,2-Dichloroethene	94.9		0.500	0.210	ug/L			11/30/12 11:50	1
cis-1,3-Dichloropropene	<0.500	U *	0.500	0.120	ug/L			11/30/12 11:50	1
Dibromomethane	<0.500	U	0.500	0.310	ug/L			11/30/12 11:50	1

TestAmerica Nashville

Client Sample Results

Client: Cardno ERI
Project/Site: Former Jalk Fee

TestAmerica Job ID: 490-12513-1
SDG: 08115513

Client Sample ID: W-89-MW7B

Lab Sample ID: 490-12513-6

Date Collected: 11/16/12 03:23
Date Received: 11/24/12 08:10

Matrix: Ground Water

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Dichlorodifluoromethane	<0.500	U	0.500	0.440	ug/L			11/30/12 11:50	1
Hexachlorobutadiene	<1.00	U	1.00	0.210	ug/L			11/30/12 11:50	1
Isopropylbenzene	<1.00	U	1.00	0.170	ug/L			11/30/12 11:50	1
Methylene Chloride	<5.00	U	5.00	0.160	ug/L			11/30/12 11:50	1
Naphthalene	<5.00	U	5.00	0.210	ug/L			11/30/12 11:50	1
n-Butylbenzene	<0.500	U	0.500	0.240	ug/L			11/30/12 11:50	1
N-Propylbenzene	<0.500	U	0.500	0.170	ug/L			11/30/12 11:50	1
4-Isopropyltoluene	<0.500	U	0.500	0.170	ug/L			11/30/12 11:50	1
Styrene	<0.500	U	0.500	0.200	ug/L			11/30/12 11:50	1
sec-Butylbenzene	<0.500	U	0.500	0.170	ug/L			11/30/12 11:50	1
tert-Butylbenzene	<0.500	U	0.500	0.170	ug/L			11/30/12 11:50	1
Tetrachloroethene	106		0.500	0.250	ug/L			11/30/12 11:50	1
trans-1,2-Dichloroethene	1.01		0.500	0.230	ug/L			11/30/12 11:50	1
trans-1,3-Dichloropropene	<0.500	U	0.500	0.110	ug/L			11/30/12 11:50	1
Trichloroethene	44.9		0.500	0.200	ug/L			11/30/12 11:50	1
Trichlorofluoromethane	<0.500	U	0.500	0.210	ug/L			11/30/12 11:50	1
Vinyl chloride	0.697		0.500	0.180	ug/L			11/30/12 11:50	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	92		70 - 130					11/30/12 11:50	1
4-Bromofluorobenzene (Surr)	100		70 - 130					11/30/12 11:50	1
Dibromofluoromethane (Surr)	98		70 - 130					11/30/12 11:50	1
Toluene-d8 (Surr)	101		70 - 130					11/30/12 11:50	1

Method: 8015B GRO LL - Gasoline Range Organics - (GC)

Analyte	Result	Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
C4-C12	208		50.0	38.0	ug/L			11/26/12 17:59	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
a,a,a-Trifluorotoluene	80		50 - 150					11/26/12 17:59	1

Method: 8015B - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics [C10-C28]	562	J H	909	50.9	ug/L		11/26/12 15:16	11/28/12 07:26	1
ORO C24-C40	366	J H	909	50.9	ug/L		11/26/12 15:16	11/28/12 07:26	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
o-Terphenyl (Surr)	84		50 - 150				11/26/12 15:16	11/28/12 07:26	1

TestAmerica Nashville

Client Sample Results

Client: Cardno ERI
Project/Site: Former Jalk Fee

TestAmerica Job ID: 490-12513-1
SDG: 08115513

Client Sample ID: W-90-MW7C

Date Collected: 11/16/12 03:53

Date Received: 11/24/12 08:10

Lab Sample ID: 490-12513-7

Matrix: Ground Water

Method: 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.500	U	0.500	0.200	ug/L			11/30/12 12:21	1
Toluene	<0.500	U	0.500	0.170	ug/L			11/30/12 12:21	1
Ethylbenzene	<0.500	U	0.500	0.190	ug/L			11/30/12 12:21	1
Xylenes, Total	<0.500	U	0.500	0.180	ug/L			11/30/12 12:21	1
Methyl tert-butyl ether	<1.00	U	1.00	0.120	ug/L			11/30/12 12:21	1
1,2-Dibromoethane (EDB)	<0.500	U	0.500	0.140	ug/L			11/30/12 12:21	1
1,2-Dichloroethane	0.240	J	0.500	0.200	ug/L			11/30/12 12:21	1
1,1,1,2-Tetrachloroethane	<0.500	U	0.500	0.150	ug/L			11/30/12 12:21	1
1,1,1-Trichloroethane	<0.500	U	0.500	0.190	ug/L			11/30/12 12:21	1
1,1,2,2-Tetrachloroethane	<0.500	U	0.500	0.190	ug/L			11/30/12 12:21	1
1,1,2-Trichloroethane	<0.500	U	0.500	0.190	ug/L			11/30/12 12:21	1
1,1-Dichloroethane	1.38		0.500	0.240	ug/L			11/30/12 12:21	1
1,1,2-Trichloro-1,2,2-trifluoroethane	<1.00	U	1.00	0.330	ug/L			11/30/12 12:21	1
1,1-Dichloroethene	6.90		0.500	0.250	ug/L			11/30/12 12:21	1
1,1-Dichloropropene	<0.500	U	0.500	0.200	ug/L			11/30/12 12:21	1
1,2,3-Trichlorobenzene	<0.500	U	0.500	0.230	ug/L			11/30/12 12:21	1
1,2,3-Trichloropropane	<0.500	U	0.500	0.230	ug/L			11/30/12 12:21	1
1,2,4-Trichlorobenzene	<0.500	U	0.500	0.150	ug/L			11/30/12 12:21	1
1,2,4-Trimethylbenzene	<0.500	U	0.500	0.170	ug/L			11/30/12 12:21	1
1,2-Dibromo-3-Chloropropane	<5.00	U	5.00	4.21	ug/L			11/30/12 12:21	1
1,2-Dichlorobenzene	<0.500	U	0.500	0.190	ug/L			11/30/12 12:21	1
1,2-Dichloropropane	<0.500	U	0.500	0.250	ug/L			11/30/12 12:21	1
1,3,5-Trimethylbenzene	<0.500	U	0.500	0.150	ug/L			11/30/12 12:21	1
1,3-Dichlorobenzene	<0.500	U	0.500	0.180	ug/L			11/30/12 12:21	1
1,3-Dichloropropane	<0.500	U	0.500	0.190	ug/L			11/30/12 12:21	1
1,4-Dichlorobenzene	<0.500	U	0.500	0.130	ug/L			11/30/12 12:21	1
2,2-Dichloropropane	<0.500	U	0.500	0.160	ug/L			11/30/12 12:21	1
2-Butanone (MEK)	<50.0	U	50.0	2.64	ug/L			11/30/12 12:21	1
2-Chlorotoluene	<0.500	U	0.500	0.180	ug/L			11/30/12 12:21	1
2-Hexanone	<10.0	U	10.0	1.28	ug/L			11/30/12 12:21	1
4-Chlorotoluene	<0.500	U	0.500	0.170	ug/L			11/30/12 12:21	1
4-Methyl-2-pentanone (MIBK)	<10.0	U	10.0	0.810	ug/L			11/30/12 12:21	1
Acetone	<50.0	U	50.0	2.66	ug/L			11/30/12 12:21	1
Bromobenzene	<0.500	U	0.500	0.210	ug/L			11/30/12 12:21	1
Chlorobromomethane	<0.500	U	0.500	0.330	ug/L			11/30/12 12:21	1
Dichlorobromomethane	<0.500	U	0.500	0.110	ug/L			11/30/12 12:21	1
Bromoform	<0.500	U	0.500	0.290	ug/L			11/30/12 12:21	1
Bromomethane	<0.500	U	0.500	0.350	ug/L			11/30/12 12:21	1
Carbon disulfide	<0.500	U	0.500	0.220	ug/L			11/30/12 12:21	1
Carbon tetrachloride	<0.500	U	0.500	0.180	ug/L			11/30/12 12:21	1
Chlorobenzene	<0.500	U	0.500	0.180	ug/L			11/30/12 12:21	1
Chlorodibromomethane	<0.500	U	0.500	0.250	ug/L			11/30/12 12:21	1
Chloroethane	<0.500	U	0.500	0.360	ug/L			11/30/12 12:21	1
Chloroform	<0.500	U	0.500	0.230	ug/L			11/30/12 12:21	1
Chloromethane	<0.500	U	0.500	0.300	ug/L			11/30/12 12:21	1
cis-1,2-Dichloroethene	5.36		0.500	0.210	ug/L			11/30/12 12:21	1
cis-1,3-Dichloropropene	<0.500	U *	0.500	0.120	ug/L			11/30/12 12:21	1
Dibromomethane	<0.500	U	0.500	0.310	ug/L			11/30/12 12:21	1
Dichlorodifluoromethane	<0.500	U	0.500	0.440	ug/L			11/30/12 12:21	1

TestAmerica Nashville

Client Sample Results

Client: Cardno ERI
Project/Site: Former Jalk Fee

TestAmerica Job ID: 490-12513-1
SDG: 08115513

Client Sample ID: W-90-MW7C

Date Collected: 11/16/12 03:53
Date Received: 11/24/12 08:10

Lab Sample ID: 490-12513-7
Matrix: Ground Water

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Hexachlorobutadiene	<1.00	U	1.00	0.210	ug/L			11/30/12 12:21	1
Isopropylbenzene	<1.00	U	1.00	0.170	ug/L			11/30/12 12:21	1
Methylene Chloride	<5.00	U	5.00	0.160	ug/L			11/30/12 12:21	1
Naphthalene	<5.00	U	5.00	0.210	ug/L			11/30/12 12:21	1
n-Butylbenzene	<0.500	U	0.500	0.240	ug/L			11/30/12 12:21	1
N-Propylbenzene	<0.500	U	0.500	0.170	ug/L			11/30/12 12:21	1
4-Isopropyltoluene	<0.500	U	0.500	0.170	ug/L			11/30/12 12:21	1
Styrene	<0.500	U	0.500	0.200	ug/L			11/30/12 12:21	1
sec-Butylbenzene	<0.500	U	0.500	0.170	ug/L			11/30/12 12:21	1
tert-Butylbenzene	<0.500	U	0.500	0.170	ug/L			11/30/12 12:21	1
Tetrachloroethene	19.0		0.500	0.250	ug/L			11/30/12 12:21	1
trans-1,2-Dichloroethene	<0.500	U	0.500	0.230	ug/L			11/30/12 12:21	1
trans-1,3-Dichloropropene	<0.500	U	0.500	0.110	ug/L			11/30/12 12:21	1
Trichloroethene	6.52		0.500	0.200	ug/L			11/30/12 12:21	1
Trichlorofluoromethane	<0.500	U	0.500	0.210	ug/L			11/30/12 12:21	1
Vinyl chloride	<0.500	U	0.500	0.180	ug/L			11/30/12 12:21	1

Surrogate

	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	90		70 - 130		11/30/12 12:21	1
4-Bromofluorobenzene (Surr)	98		70 - 130		11/30/12 12:21	1
Dibromofluoromethane (Surr)	99		70 - 130		11/30/12 12:21	1
Toluene-d8 (Surr)	101		70 - 130		11/30/12 12:21	1

Method: 8015B GRO LL - Gasoline Range Organics - (GC)

Analyte	Result	Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
C4-C12	<50.0	U	50.0	38.0	ug/L			11/26/12 18:29	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
a,a,a-Trifluorotoluene	83		50 - 150					11/26/12 18:29	1

Method: 8015B - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics [C10-C28]	768	J H	909	50.9	ug/L		11/26/12 15:16	11/28/12 07:45	1
ORO C24-C40	778	J H	909	50.9	ug/L		11/26/12 15:16	11/28/12 07:45	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
o-Terphenyl (Surr)	88		50 - 150				11/26/12 15:16	11/28/12 07:45	1

TestAmerica Nashville

Client Sample Results

Client: Cardno ERI
Project/Site: Former Jalk Fee

TestAmerica Job ID: 490-12513-1
SDG: 08115513

Client Sample ID: W-90-MW10A

Date Collected: 11/16/12 04:35

Date Received: 11/24/12 08:10

Lab Sample ID: 490-12513-8

Matrix: Ground Water

Method: 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.500	U	0.500	0.200	ug/L			11/30/12 12:52	1
Toluene	<0.500	U	0.500	0.170	ug/L			11/30/12 12:52	1
Ethylbenzene	<0.500	U	0.500	0.190	ug/L			11/30/12 12:52	1
Xylenes, Total	<0.500	U	0.500	0.180	ug/L			11/30/12 12:52	1
Methyl tert-butyl ether	0.301	J	1.00	0.120	ug/L			11/30/12 12:52	1
1,2-Dibromoethane (EDB)	<0.500	U	0.500	0.140	ug/L			11/30/12 12:52	1
1,2-Dichloroethane	3.51		0.500	0.200	ug/L			11/30/12 12:52	1
1,1,1,2-Tetrachloroethane	<0.500	U	0.500	0.150	ug/L			11/30/12 12:52	1
1,1,1-Trichloroethane	0.688		0.500	0.190	ug/L			11/30/12 12:52	1
1,1,2,2-Tetrachloroethane	<0.500	U	0.500	0.190	ug/L			11/30/12 12:52	1
1,1,2-Trichloroethane	<0.500	U	0.500	0.190	ug/L			11/30/12 12:52	1
1,1-Dichloroethane	23.3		0.500	0.240	ug/L			11/30/12 12:52	1
1,1,2-Trichloro-1,2,2-trifluoroethane	42.8		1.00	0.330	ug/L			11/30/12 12:52	1
ne									
1,1-Dichloroethene	141		0.500	0.250	ug/L			11/30/12 12:52	1
1,1-Dichloropropene	<0.500	U	0.500	0.200	ug/L			11/30/12 12:52	1
1,2,3-Trichlorobenzene	<0.500	U	0.500	0.230	ug/L			11/30/12 12:52	1
1,2,3-Trichloropropane	<0.500	U	0.500	0.230	ug/L			11/30/12 12:52	1
1,2,4-Trichlorobenzene	<0.500	U	0.500	0.150	ug/L			11/30/12 12:52	1
1,2,4-Trimethylbenzene	<0.500	U	0.500	0.170	ug/L			11/30/12 12:52	1
1,2-Dibromo-3-Chloropropane	<5.00	U	5.00	4.21	ug/L			11/30/12 12:52	1
1,2-Dichlorobenzene	<0.500	U	0.500	0.190	ug/L			11/30/12 12:52	1
1,2-Dichloropropane	<0.500	U	0.500	0.250	ug/L			11/30/12 12:52	1
1,3,5-Trimethylbenzene	<0.500	U	0.500	0.150	ug/L			11/30/12 12:52	1
1,3-Dichlorobenzene	<0.500	U	0.500	0.180	ug/L			11/30/12 12:52	1
1,3-Dichloropropane	<0.500	U	0.500	0.190	ug/L			11/30/12 12:52	1
1,4-Dichlorobenzene	<0.500	U	0.500	0.130	ug/L			11/30/12 12:52	1
2,2-Dichloropropane	<0.500	U	0.500	0.160	ug/L			11/30/12 12:52	1
2-Butanone (MEK)	<50.0	U	50.0	2.64	ug/L			11/30/12 12:52	1
2-Chlorotoluene	<0.500	U	0.500	0.180	ug/L			11/30/12 12:52	1
2-Hexanone	<10.0	U	10.0	1.28	ug/L			11/30/12 12:52	1
4-Chlorotoluene	<0.500	U	0.500	0.170	ug/L			11/30/12 12:52	1
4-Methyl-2-pentanone (MIBK)	<10.0	U	10.0	0.810	ug/L			11/30/12 12:52	1
Acetone	<50.0	U	50.0	2.66	ug/L			11/30/12 12:52	1
Bromobenzene	<0.500	U	0.500	0.210	ug/L			11/30/12 12:52	1
Chlorobromomethane	<0.500	U	0.500	0.330	ug/L			11/30/12 12:52	1
Dichlorobromomethane	<0.500	U	0.500	0.110	ug/L			11/30/12 12:52	1
Bromoform	<0.500	U	0.500	0.290	ug/L			11/30/12 12:52	1
Bromomethane	<0.500	U	0.500	0.350	ug/L			11/30/12 12:52	1
Carbon disulfide	<0.500	U	0.500	0.220	ug/L			11/30/12 12:52	1
Carbon tetrachloride	<0.500	U	0.500	0.180	ug/L			11/30/12 12:52	1
Chlorobenzene	<0.500	U	0.500	0.180	ug/L			11/30/12 12:52	1
Chlorodibromomethane	<0.500	U	0.500	0.250	ug/L			11/30/12 12:52	1
Chloroethane	<0.500	U	0.500	0.360	ug/L			11/30/12 12:52	1
Chloroform	11.6		0.500	0.230	ug/L			11/30/12 12:52	1
Chloromethane	<0.500	U	0.500	0.300	ug/L			11/30/12 12:52	1
cis-1,2-Dichloroethene	83.7		0.500	0.210	ug/L			11/30/12 12:52	1
cis-1,3-Dichloropropene	<0.500	U *	0.500	0.120	ug/L			11/30/12 12:52	1
Dibromomethane	<0.500	U	0.500	0.310	ug/L			11/30/12 12:52	1

TestAmerica Nashville

Client Sample Results

Client: Cardno ERI
Project/Site: Former Jalk Fee

TestAmerica Job ID: 490-12513-1
SDG: 08115513

Client Sample ID: W-90-MW10A

Lab Sample ID: 490-12513-8

Matrix: Ground Water

Date Collected: 11/16/12 04:35
Date Received: 11/24/12 08:10

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Dichlorodifluoromethane	<0.500	U	0.500	0.440	ug/L			11/30/12 12:52	1
Hexachlorobutadiene	<1.00	U	1.00	0.210	ug/L			11/30/12 12:52	1
Isopropylbenzene	<1.00	U	1.00	0.170	ug/L			11/30/12 12:52	1
Methylene Chloride	<5.00	U	5.00	0.160	ug/L			11/30/12 12:52	1
Naphthalene	<5.00	U	5.00	0.210	ug/L			11/30/12 12:52	1
n-Butylbenzene	<0.500	U	0.500	0.240	ug/L			11/30/12 12:52	1
N-Propylbenzene	<0.500	U	0.500	0.170	ug/L			11/30/12 12:52	1
4-Isopropyltoluene	<0.500	U	0.500	0.170	ug/L			11/30/12 12:52	1
Styrene	<0.500	U	0.500	0.200	ug/L			11/30/12 12:52	1
sec-Butylbenzene	<0.500	U	0.500	0.170	ug/L			11/30/12 12:52	1
tert-Butylbenzene	<0.500	U	0.500	0.170	ug/L			11/30/12 12:52	1
Tetrachloroethene	191	H		5.00	2.50	ug/L		12/01/12 08:42	10
trans-1,2-Dichloroethene	1.79		0.500	0.230	ug/L			11/30/12 12:52	1
trans-1,3-Dichloropropene	<0.500	U	0.500	0.110	ug/L			11/30/12 12:52	1
Trichloroethene	148		0.500	0.200	ug/L			11/30/12 12:52	1
Trichlorofluoromethane	16.1		0.500	0.210	ug/L			11/30/12 12:52	1
Vinyl chloride	1.49		0.500	0.180	ug/L			11/30/12 12:52	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	89		70 - 130		11/30/12 12:52	1
1,2-Dichloroethane-d4 (Surr)	87		70 - 130		12/01/12 08:42	10
4-Bromofluorobenzene (Surr)	98		70 - 130		11/30/12 12:52	1
4-Bromofluorobenzene (Surr)	104		70 - 130		12/01/12 08:42	10
Dibromofluoromethane (Surr)	96		70 - 130		11/30/12 12:52	1
Dibromofluoromethane (Surr)	98		70 - 130		12/01/12 08:42	10
Toluene-d8 (Surr)	102		70 - 130		11/30/12 12:52	1
Toluene-d8 (Surr)	104		70 - 130		12/01/12 08:42	10

Method: 8015B GRO LL - Gasoline Range Organics - (GC)

Analyte	Result	Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
C4-C12	279		50.0	38.0	ug/L			11/26/12 18:59	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
a,a,a-Trifluorotoluene	75		50 - 150					11/26/12 18:59	1

Method: 8015B - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac	
Diesel Range Organics [C10-C28]	<909	U H	909	50.9	ug/L		11/26/12 15:16	11/28/12 08:03	1	
ORO C24-C40	59.5	J H	909	50.9	ug/L		11/26/12 15:16	11/28/12 08:03	1	
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac	
o-Terphenyl (Surr)	84		50 - 150					11/26/12 15:16	11/28/12 08:03	1

TestAmerica Nashville

Client Sample Results

Client: Cardno ERI
Project/Site: Former Jalk Fee

TestAmerica Job ID: 490-12513-1
SDG: 08115513

Client Sample ID: W-89-MW10B

Date Collected: 11/16/12 05:30
Date Received: 11/24/12 08:10

Lab Sample ID: 490-12513-9
Matrix: Ground Water

Method: 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.500	U	0.500	0.200	ug/L			11/30/12 13:22	1
Toluene	<0.500	U	0.500	0.170	ug/L			11/30/12 13:22	1
Ethylbenzene	<0.500	U	0.500	0.190	ug/L			11/30/12 13:22	1
Xylenes, Total	<0.500	U	0.500	0.180	ug/L			11/30/12 13:22	1
Methyl tert-butyl ether	<1.00	U	1.00	0.120	ug/L			11/30/12 13:22	1
1,2-Dibromoethane (EDB)	<0.500	U	0.500	0.140	ug/L			11/30/12 13:22	1
1,2-Dichloroethane	3.33		0.500	0.200	ug/L			11/30/12 13:22	1
1,1,1,2-Tetrachloroethane	<0.500	U	0.500	0.150	ug/L			11/30/12 13:22	1
1,1,1-Trichloroethane	0.197 J		0.500	0.190	ug/L			11/30/12 13:22	1
1,1,2,2-Tetrachloroethane	<0.500	U	0.500	0.190	ug/L			11/30/12 13:22	1
1,1,2-Trichloroethane	<0.500	U	0.500	0.190	ug/L			11/30/12 13:22	1
1,1-Dichloroethane	21.2		0.500	0.240	ug/L			11/30/12 13:22	1
1,1,2-Trichloro-1,2,2-trifluoroethane	18.0		1.00	0.330	ug/L			11/30/12 13:22	1
ne									
1,1-Dichloroethene	105		0.500	0.250	ug/L			11/30/12 13:22	1
1,1-Dichloropropene	<0.500	U	0.500	0.200	ug/L			11/30/12 13:22	1
1,2,3-Trichlorobenzene	<0.500	U	0.500	0.230	ug/L			11/30/12 13:22	1
1,2,3-Trichloropropane	<0.500	U	0.500	0.230	ug/L			11/30/12 13:22	1
1,2,4-Trichlorobenzene	<0.500	U	0.500	0.150	ug/L			11/30/12 13:22	1
1,2,4-Trimethylbenzene	<0.500	U	0.500	0.170	ug/L			11/30/12 13:22	1
1,2-Dibromo-3-Chloropropane	<5.00	U	5.00	4.21	ug/L			11/30/12 13:22	1
1,2-Dichlorobenzene	<0.500	U	0.500	0.190	ug/L			11/30/12 13:22	1
1,2-Dichloropropane	<0.500	U	0.500	0.250	ug/L			11/30/12 13:22	1
1,3,5-Trimethylbenzene	<0.500	U	0.500	0.150	ug/L			11/30/12 13:22	1
1,3-Dichlorobenzene	<0.500	U	0.500	0.180	ug/L			11/30/12 13:22	1
1,3-Dichloropropane	<0.500	U	0.500	0.190	ug/L			11/30/12 13:22	1
1,4-Dichlorobenzene	<0.500	U	0.500	0.130	ug/L			11/30/12 13:22	1
2,2-Dichloropropane	<0.500	U	0.500	0.160	ug/L			11/30/12 13:22	1
2-Butanone (MEK)	<50.0	U	50.0	2.64	ug/L			11/30/12 13:22	1
2-Chlorotoluene	<0.500	U	0.500	0.180	ug/L			11/30/12 13:22	1
2-Hexanone	<10.0	U	10.0	1.28	ug/L			11/30/12 13:22	1
4-Chlorotoluene	<0.500	U	0.500	0.170	ug/L			11/30/12 13:22	1
4-Methyl-2-pentanone (MIBK)	<10.0	U	10.0	0.810	ug/L			11/30/12 13:22	1
Acetone	<50.0	U	50.0	2.66	ug/L			11/30/12 13:22	1
Bromobenzene	<0.500	U	0.500	0.210	ug/L			11/30/12 13:22	1
Chlorobromomethane	<0.500	U	0.500	0.330	ug/L			11/30/12 13:22	1
Dichlorobromomethane	0.472 J		0.500	0.110	ug/L			11/30/12 13:22	1
Bromoform	<0.500	U	0.500	0.290	ug/L			11/30/12 13:22	1
Bromomethane	<0.500	U	0.500	0.350	ug/L			11/30/12 13:22	1
Carbon disulfide	<0.500	U	0.500	0.220	ug/L			11/30/12 13:22	1
Carbon tetrachloride	<0.500	U	0.500	0.180	ug/L			11/30/12 13:22	1
Chlorobenzene	<0.500	U	0.500	0.180	ug/L			11/30/12 13:22	1
Chlorodibromomethane	0.698		0.500	0.250	ug/L			11/30/12 13:22	1
Chloroethane	<0.500	U	0.500	0.360	ug/L			11/30/12 13:22	1
Chloroform	4.34		0.500	0.230	ug/L			11/30/12 13:22	1
Chloromethane	<0.500	U	0.500	0.300	ug/L			11/30/12 13:22	1
cis-1,2-Dichloroethene	53.2		0.500	0.210	ug/L			11/30/12 13:22	1
cis-1,3-Dichloropropene	<0.500	U *	0.500	0.120	ug/L			11/30/12 13:22	1
Dibromomethane	<0.500	U	0.500	0.310	ug/L			11/30/12 13:22	1

TestAmerica Nashville

Client Sample Results

Client: Cardno ERI
Project/Site: Former Jalk Fee

TestAmerica Job ID: 490-12513-1
SDG: 08115513

Client Sample ID: W-89-MW10B

Lab Sample ID: 490-12513-9

Date Collected: 11/16/12 05:30
Date Received: 11/24/12 08:10

Matrix: Ground Water

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Dichlorodifluoromethane	<0.500	U	0.500	0.440	ug/L			11/30/12 13:22	1
Hexachlorobutadiene	<1.00	U	1.00	0.210	ug/L			11/30/12 13:22	1
Isopropylbenzene	<1.00	U	1.00	0.170	ug/L			11/30/12 13:22	1
Methylene Chloride	<5.00	U	5.00	0.160	ug/L			11/30/12 13:22	1
Naphthalene	<5.00	U	5.00	0.210	ug/L			11/30/12 13:22	1
n-Butylbenzene	<0.500	U	0.500	0.240	ug/L			11/30/12 13:22	1
N-Propylbenzene	<0.500	U	0.500	0.170	ug/L			11/30/12 13:22	1
4-Isopropyltoluene	<0.500	U	0.500	0.170	ug/L			11/30/12 13:22	1
Styrene	<0.500	U	0.500	0.200	ug/L			11/30/12 13:22	1
sec-Butylbenzene	<0.500	U	0.500	0.170	ug/L			11/30/12 13:22	1
tert-Butylbenzene	<0.500	U	0.500	0.170	ug/L			11/30/12 13:22	1
Tetrachloroethene	140		0.500	0.250	ug/L			11/30/12 13:22	1
trans-1,2-Dichloroethene	1.31		0.500	0.230	ug/L			11/30/12 13:22	1
trans-1,3-Dichloropropene	<0.500	U	0.500	0.110	ug/L			11/30/12 13:22	1
Trichloroethene	101		0.500	0.200	ug/L			11/30/12 13:22	1
Trichlorofluoromethane	3.27		0.500	0.210	ug/L			11/30/12 13:22	1
Vinyl chloride	<0.500	U	0.500	0.180	ug/L			11/30/12 13:22	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	92		70 - 130		11/30/12 13:22	1
4-Bromofluorobenzene (Surr)	99		70 - 130		11/30/12 13:22	1
Dibromofluoromethane (Surr)	98		70 - 130		11/30/12 13:22	1
Toluene-d8 (Surr)	102		70 - 130		11/30/12 13:22	1

Method: 8015B GRO LL - Gasoline Range Organics - (GC)

Analyte	Result	Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
C4-C12	210		50.0	38.0	ug/L			11/26/12 19:30	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
a,a,a-Trifluorotoluene	76		50 - 150					11/26/12 19:30	1

Method: 8015B - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics [C10-C28]	313	J H	909	50.9	ug/L		11/26/12 15:16	11/28/12 08:22	1
ORO C24-C40	369	J H	909	50.9	ug/L		11/26/12 15:16	11/28/12 08:22	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
o-Terphenyl (Surr)	84		50 - 150				11/26/12 15:16	11/28/12 08:22	1

TestAmerica Nashville

Client Sample Results

Client: Cardno ERI
Project/Site: Former Jalk Fee

TestAmerica Job ID: 490-12513-1
SDG: 08115513

Client Sample ID: W-89-MW10C

Date Collected: 11/16/12 06:39
Date Received: 11/24/12 08:10

Lab Sample ID: 490-12513-10

Matrix: Ground Water

Method: 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.500	U	0.500	0.200	ug/L			11/30/12 13:53	1
Toluene	<0.500	U	0.500	0.170	ug/L			11/30/12 13:53	1
Ethylbenzene	<0.500	U	0.500	0.190	ug/L			11/30/12 13:53	1
Xylenes, Total	<0.500	U	0.500	0.180	ug/L			11/30/12 13:53	1
Methyl tert-butyl ether	<1.00	U	1.00	0.120	ug/L			11/30/12 13:53	1
1,2-Dibromoethane (EDB)	<0.500	U	0.500	0.140	ug/L			11/30/12 13:53	1
1,2-Dichloroethane	2.22		0.500	0.200	ug/L			11/30/12 13:53	1
1,1,1,2-Tetrachloroethane	<0.500	U	0.500	0.150	ug/L			11/30/12 13:53	1
1,1,1-Trichloroethane	<0.500	U	0.500	0.190	ug/L			11/30/12 13:53	1
1,1,2,2-Tetrachloroethane	<0.500	U	0.500	0.190	ug/L			11/30/12 13:53	1
1,1,2-Trichloroethane	<0.500	U	0.500	0.190	ug/L			11/30/12 13:53	1
1,1-Dichloroethane	10.1		0.500	0.240	ug/L			11/30/12 13:53	1
1,1,2-Trichloro-1,2,2-trifluoroethane	<1.00	U	1.00	0.330	ug/L			11/30/12 13:53	1
1,1-Dichloroethene	109		0.500	0.250	ug/L			11/30/12 13:53	1
1,1-Dichloropropene	<0.500	U	0.500	0.200	ug/L			11/30/12 13:53	1
1,2,3-Trichlorobenzene	<0.500	U	0.500	0.230	ug/L			11/30/12 13:53	1
1,2,3-Trichloropropane	<0.500	U	0.500	0.230	ug/L			11/30/12 13:53	1
1,2,4-Trichlorobenzene	<0.500	U	0.500	0.150	ug/L			11/30/12 13:53	1
1,2,4-Trimethylbenzene	<0.500	U	0.500	0.170	ug/L			11/30/12 13:53	1
1,2-Dibromo-3-Chloropropane	<5.00	U	5.00	4.21	ug/L			11/30/12 13:53	1
1,2-Dichlorobenzene	<0.500	U	0.500	0.190	ug/L			11/30/12 13:53	1
1,2-Dichloropropane	<0.500	U	0.500	0.250	ug/L			11/30/12 13:53	1
1,3,5-Trimethylbenzene	<0.500	U	0.500	0.150	ug/L			11/30/12 13:53	1
1,3-Dichlorobenzene	<0.500	U	0.500	0.180	ug/L			11/30/12 13:53	1
1,3-Dichloropropane	<0.500	U	0.500	0.190	ug/L			11/30/12 13:53	1
1,4-Dichlorobenzene	<0.500	U	0.500	0.130	ug/L			11/30/12 13:53	1
2,2-Dichloropropane	<0.500	U	0.500	0.160	ug/L			11/30/12 13:53	1
2-Butanone (MEK)	<50.0	U	50.0	2.64	ug/L			11/30/12 13:53	1
2-Chlorotoluene	<0.500	U	0.500	0.180	ug/L			11/30/12 13:53	1
2-Hexanone	<10.0	U	10.0	1.28	ug/L			11/30/12 13:53	1
4-Chlorotoluene	<0.500	U	0.500	0.170	ug/L			11/30/12 13:53	1
4-Methyl-2-pentanone (MIBK)	<10.0	U	10.0	0.810	ug/L			11/30/12 13:53	1
Acetone	<50.0	U	50.0	2.66	ug/L			11/30/12 13:53	1
Bromobenzene	<0.500	U	0.500	0.210	ug/L			11/30/12 13:53	1
Chlorobromomethane	<0.500	U	0.500	0.330	ug/L			11/30/12 13:53	1
Dichlorobromomethane	<0.500	U	0.500	0.110	ug/L			11/30/12 13:53	1
Bromoform	<0.500	U	0.500	0.290	ug/L			11/30/12 13:53	1
Bromomethane	<0.500	U	0.500	0.350	ug/L			11/30/12 13:53	1
Carbon disulfide	<0.500	U	0.500	0.220	ug/L			11/30/12 13:53	1
Carbon tetrachloride	<0.500	U	0.500	0.180	ug/L			11/30/12 13:53	1
Chlorobenzene	<0.500	U	0.500	0.180	ug/L			11/30/12 13:53	1
Chlorodibromomethane	<0.500	U	0.500	0.250	ug/L			11/30/12 13:53	1
Chloroethane	<0.500	U	0.500	0.360	ug/L			11/30/12 13:53	1
Chloroform	<0.500	U	0.500	0.230	ug/L			11/30/12 13:53	1
Chloromethane	<0.500	U	0.500	0.300	ug/L			11/30/12 13:53	1
cis-1,2-Dichloroethene	46.1		0.500	0.210	ug/L			11/30/12 13:53	1
cis-1,3-Dichloropropene	<0.500	U *	0.500	0.120	ug/L			11/30/12 13:53	1
Dibromomethane	<0.500	U	0.500	0.310	ug/L			11/30/12 13:53	1
Dichlorodifluoromethane	<0.500	U	0.500	0.440	ug/L			11/30/12 13:53	1

TestAmerica Nashville

Client Sample Results

Client: Cardno ERI
 Project/Site: Former Jalk Fee

TestAmerica Job ID: 490-12513-1
 SDG: 08115513

Client Sample ID: W-89-MW10C

Lab Sample ID: 490-12513-10

Date Collected: 11/16/12 06:39
 Date Received: 11/24/12 08:10

Matrix: Ground Water

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Hexachlorobutadiene	<1.00	U	1.00	0.210	ug/L			11/30/12 13:53	1
Isopropylbenzene	<1.00	U	1.00	0.170	ug/L			11/30/12 13:53	1
Methylene Chloride	<5.00	U	5.00	0.160	ug/L			11/30/12 13:53	1
Naphthalene	<5.00	U	5.00	0.210	ug/L			11/30/12 13:53	1
n-Butylbenzene	<0.500	U	0.500	0.240	ug/L			11/30/12 13:53	1
N-Propylbenzene	<0.500	U	0.500	0.170	ug/L			11/30/12 13:53	1
4-Isopropyltoluene	<0.500	U	0.500	0.170	ug/L			11/30/12 13:53	1
Styrene	<0.500	U	0.500	0.200	ug/L			11/30/12 13:53	1
sec-Butylbenzene	<0.500	U	0.500	0.170	ug/L			11/30/12 13:53	1
tert-Butylbenzene	<0.500	U	0.500	0.170	ug/L			11/30/12 13:53	1
Tetrachloroethene	65.0		0.500	0.250	ug/L			11/30/12 13:53	1
trans-1,2-Dichloroethene	0.841		0.500	0.230	ug/L			11/30/12 13:53	1
trans-1,3-Dichloropropene	<0.500	U	0.500	0.110	ug/L			11/30/12 13:53	1
Trichloroethene	86.3		0.500	0.200	ug/L			11/30/12 13:53	1
Trichlorofluoromethane	<0.500	U	0.500	0.210	ug/L			11/30/12 13:53	1
Vinyl chloride	<0.500	U	0.500	0.180	ug/L			11/30/12 13:53	1

Surrogate

	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	93		70 - 130		11/30/12 13:53	1
4-Bromofluorobenzene (Surr)	100		70 - 130		11/30/12 13:53	1
Dibromofluoromethane (Surr)	98		70 - 130		11/30/12 13:53	1
Toluene-d8 (Surr)	101		70 - 130		11/30/12 13:53	1

Method: 8015B GRO LL - Gasoline Range Organics - (GC)

Analyte	Result	Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
C4-C12	168		50.0	38.0	ug/L			11/26/12 20:00	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
a,a,a-Trifluorotoluene	78		50 - 150					11/26/12 20:00	1

Method: 8015B - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics [C10-C28]	210	J H	909	50.9	ug/L		11/26/12 15:16	11/28/12 08:40	1
ORO C24-C40	241	J H	909	50.9	ug/L		11/26/12 15:16	11/28/12 08:40	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
o-Terphenyl (Surr)	97		50 - 150				11/26/12 15:16	11/28/12 08:40	1

TestAmerica Nashville

Client Sample Results

Client: Cardno ERI
Project/Site: Former Jalk Fee

TestAmerica Job ID: 490-12513-1
SDG: 08115513

Client Sample ID: QCTB

Date Collected: 11/16/12 06:00
Date Received: 11/24/12 08:10

Lab Sample ID: 490-12513-11

Matrix: Ground Water

Method: 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.500	U	0.500	0.200	ug/L			11/30/12 08:45	1
Toluene	<0.500	U	0.500	0.170	ug/L			11/30/12 08:45	1
Ethylbenzene	<0.500	U	0.500	0.190	ug/L			11/30/12 08:45	1
Xylenes, Total	<0.500	U	0.500	0.180	ug/L			11/30/12 08:45	1
Methyl tert-butyl ether	<0.500	U	0.500	0.120	ug/L			11/30/12 08:45	1
1,2-Dibromoethane (EDB)	<0.500	U	0.500	0.140	ug/L			11/30/12 08:45	1
1,2-Dichloroethane	<0.500	U	0.500	0.200	ug/L			11/30/12 08:45	1
1,1,1,2-Tetrachloroethane	<0.500	U	0.500	0.150	ug/L			11/30/12 08:45	1
1,1,1-Trichloroethane	<0.500	U	0.500	0.190	ug/L			11/30/12 08:45	1
1,1,2,2-Tetrachloroethane	<0.500	U	0.500	0.190	ug/L			11/30/12 08:45	1
1,1,2-Trichloroethane	<0.500	U	0.500	0.190	ug/L			11/30/12 08:45	1
1,1-Dichloroethane	<0.500	U	0.500	0.240	ug/L			11/30/12 08:45	1
1,1,2-Trichloro-1,2,2-trifluoroethane	<1.00	U	1.00	0.330	ug/L			11/30/12 08:45	1
1,1-Dichloroethylene	<0.500	U	0.500	0.250	ug/L			11/30/12 08:45	1
1,1-Dichloropropene	<0.500	U	0.500	0.200	ug/L			11/30/12 08:45	1
1,2,3-Trichlorobenzene	<0.500	U	0.500	0.230	ug/L			11/30/12 08:45	1
1,2,3-Trichloropropane	<0.500	U	0.500	0.230	ug/L			11/30/12 08:45	1
1,2,4-Trichlorobenzene	<0.500	U	0.500	0.150	ug/L			11/30/12 08:45	1
1,2,4-Trimethylbenzene	<0.500	U	0.500	0.170	ug/L			11/30/12 08:45	1
1,2-Dibromo-3-Chloropropane	<5.00	U	5.00	4.21	ug/L			11/30/12 08:45	1
1,2-Dichlorobenzene	<0.500	U	0.500	0.190	ug/L			11/30/12 08:45	1
1,2-Dichloropropane	<0.500	U	0.500	0.250	ug/L			11/30/12 08:45	1
1,3,5-Trimethylbenzene	<0.500	U	0.500	0.150	ug/L			11/30/12 08:45	1
1,3-Dichlorobenzene	<0.500	U	0.500	0.180	ug/L			11/30/12 08:45	1
1,3-Dichloropropane	<0.500	U	0.500	0.190	ug/L			11/30/12 08:45	1
1,4-Dichlorobenzene	<0.500	U	0.500	0.130	ug/L			11/30/12 08:45	1
2,2-Dichloropropane	<0.500	U	0.500	0.160	ug/L			11/30/12 08:45	1
2-Butanone (MEK)	<50.0	U	50.0	2.64	ug/L			11/30/12 08:45	1
2-Chlorotoluene	<0.500	U	0.500	0.180	ug/L			11/30/12 08:45	1
2-Hexanone	<10.0	U	10.0	1.28	ug/L			11/30/12 08:45	1
4-Chlorotoluene	<0.500	U	0.500	0.170	ug/L			11/30/12 08:45	1
4-Methyl-2-pentanone (MIBK)	<10.0	U	10.0	0.810	ug/L			11/30/12 08:45	1
Acetone	<50.0	U	50.0	2.66	ug/L			11/30/12 08:45	1
Bromobenzene	<0.500	U	0.500	0.210	ug/L			11/30/12 08:45	1
Chlorobromomethane	<0.500	U	0.500	0.330	ug/L			11/30/12 08:45	1
Dichlorobromomethane	<0.500	U	0.500	0.110	ug/L			11/30/12 08:45	1
Bromoform	<0.500	U	0.500	0.290	ug/L			11/30/12 08:45	1
Bromomethane	<0.500	U	0.500	0.350	ug/L			11/30/12 08:45	1
Carbon disulfide	<0.500	U	0.500	0.220	ug/L			11/30/12 08:45	1
Carbon tetrachloride	<0.500	U	0.500	0.180	ug/L			11/30/12 08:45	1
Chlorobenzene	<0.500	U	0.500	0.180	ug/L			11/30/12 08:45	1
Chlorodibromomethane	<0.500	U	0.500	0.250	ug/L			11/30/12 08:45	1
Chloroethane	<0.500	U	0.500	0.360	ug/L			11/30/12 08:45	1
Chloroform	<0.500	U	0.500	0.230	ug/L			11/30/12 08:45	1
Chloromethane	<0.500	U	0.500	0.300	ug/L			11/30/12 08:45	1
cis-1,2-Dichloroethene	<0.500	U	0.500	0.210	ug/L			11/30/12 08:45	1
cis-1,3-Dichloropropene	<0.500	U *	0.500	0.120	ug/L			11/30/12 08:45	1
Dibromomethane	<0.500	U	0.500	0.310	ug/L			11/30/12 08:45	1
Dichlorodifluoromethane	<0.500	U	0.500	0.440	ug/L			11/30/12 08:45	1

TestAmerica Nashville

Client Sample Results

Client: Cardno ERI
 Project/Site: Former Jalk Fee

TestAmerica Job ID: 490-12513-1
 SDG: 08115513

Client Sample ID: QCTB
Date Collected: 11/16/12 06:00
Date Received: 11/24/12 08:10

Lab Sample ID: 490-12513-11
Matrix: Ground Water

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Hexachlorobutadiene	0.546	J B	1.00	0.210	ug/L			11/30/12 08:45	1
Isopropylbenzene	<1.00	U	1.00	0.170	ug/L			11/30/12 08:45	1
Methylene Chloride	<5.00	U	5.00	0.160	ug/L			11/30/12 08:45	1
Naphthalene	<5.00	U	5.00	0.210	ug/L			11/30/12 08:45	1
n-Butylbenzene	<0.500	U	0.500	0.240	ug/L			11/30/12 08:45	1
N-Propylbenzene	<0.500	U	0.500	0.170	ug/L			11/30/12 08:45	1
4-Isopropyltoluene	<0.500	U	0.500	0.170	ug/L			11/30/12 08:45	1
sec-Butylbenzene	<0.500	U	0.500	0.170	ug/L			11/30/12 08:45	1
Styrene	<0.500	U	0.500	0.200	ug/L			11/30/12 08:45	1
tert-Butylbenzene	<0.500	U	0.500	0.170	ug/L			11/30/12 08:45	1
Tetrachloroethene	<0.500	U	0.500	0.250	ug/L			11/30/12 08:45	1
trans-1,2-Dichloroethene	<0.500	U	0.500	0.230	ug/L			11/30/12 08:45	1
trans-1,3-Dichloropropene	<0.500	U	0.500	0.110	ug/L			11/30/12 08:45	1
Trichloroethene	<0.500	U	0.500	0.200	ug/L			11/30/12 08:45	1
Trichlorofluoromethane	<0.500	U	0.500	0.210	ug/L			11/30/12 08:45	1
Vinyl chloride	<0.500	U	0.500	0.180	ug/L			11/30/12 08:45	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac	
1,2-Dichloroethane-d4 (Surr)	88		70 - 130				11/30/12 08:45	1	
4-Bromofluorobenzene (Surr)	105		70 - 130				11/30/12 08:45	1	
Dibromofluoromethane (Surr)	93		70 - 130				11/30/12 08:45	1	
Toluene-d8 (Surr)	104		70 - 130				11/30/12 08:45	1	

TestAmerica Nashville

Client Sample Results

Client: Cardno ERI
Project/Site: Former Jalk Fee

TestAmerica Job ID: 490-12513-1
SDG: 08115513

Client Sample ID: Dup

Date Collected: 11/16/12 00:01
Date Received: 11/24/12 08:10

Lab Sample ID: 490-12513-12

Matrix: Ground Water

Method: 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.500	U	0.500	0.200	ug/L			11/30/12 14:24	1
Toluene	<0.500	U	0.500	0.170	ug/L			11/30/12 14:24	1
Ethylbenzene	<0.500	U	0.500	0.190	ug/L			11/30/12 14:24	1
Xylenes, Total	<0.500	U	0.500	0.180	ug/L			11/30/12 14:24	1
Methyl tert-butyl ether	<1.00	U	1.00	0.120	ug/L			11/30/12 14:24	1
1,2-Dibromoethane (EDB)	<0.500	U	0.500	0.140	ug/L			11/30/12 14:24	1
1,2-Dichloroethane	2.14		0.500	0.200	ug/L			11/30/12 14:24	1
1,1,1,2-Tetrachloroethane	<0.500	U	0.500	0.150	ug/L			11/30/12 14:24	1
1,1,1-Trichloroethane	<0.500	U	0.500	0.190	ug/L			11/30/12 14:24	1
1,1,2,2-Tetrachloroethane	<0.500	U	0.500	0.190	ug/L			11/30/12 14:24	1
1,1,2-Trichloroethane	<0.500	U	0.500	0.190	ug/L			11/30/12 14:24	1
1,1-Dichloroethane	11.5		0.500	0.240	ug/L			11/30/12 14:24	1
1,1,2-Trichloro-1,2,2-trifluoroethane	<1.00	U	1.00	0.330	ug/L			11/30/12 14:24	1
1,1-Dichloroethene	40.3		0.500	0.250	ug/L			11/30/12 14:24	1
1,1-Dichloropropene	<0.500	U	0.500	0.200	ug/L			11/30/12 14:24	1
1,2,3-Trichlorobenzene	<0.500	U	0.500	0.230	ug/L			11/30/12 14:24	1
1,2,3-Trichloropropane	<0.500	U	0.500	0.230	ug/L			11/30/12 14:24	1
1,2,4-Trichlorobenzene	<0.500	U	0.500	0.150	ug/L			11/30/12 14:24	1
1,2,4-Trimethylbenzene	<0.500	U	0.500	0.170	ug/L			11/30/12 14:24	1
1,2-Dibromo-3-Chloropropane	<5.00	U	5.00	4.21	ug/L			11/30/12 14:24	1
1,2-Dichlorobenzene	<0.500	U	0.500	0.190	ug/L			11/30/12 14:24	1
1,2-Dichloropropane	0.286 J		0.500	0.250	ug/L			11/30/12 14:24	1
1,3,5-Trimethylbenzene	<0.500	U	0.500	0.150	ug/L			11/30/12 14:24	1
1,3-Dichlorobenzene	<0.500	U	0.500	0.180	ug/L			11/30/12 14:24	1
1,3-Dichloropropane	<0.500	U	0.500	0.190	ug/L			11/30/12 14:24	1
1,4-Dichlorobenzene	<0.500	U	0.500	0.130	ug/L			11/30/12 14:24	1
2,2-Dichloropropane	<0.500	U	0.500	0.160	ug/L			11/30/12 14:24	1
2-Butanone (MEK)	<50.0	U	50.0	2.64	ug/L			11/30/12 14:24	1
2-Chlorotoluene	<0.500	U	0.500	0.180	ug/L			11/30/12 14:24	1
2-Hexanone	<10.0	U	10.0	1.28	ug/L			11/30/12 14:24	1
4-Chlorotoluene	<0.500	U	0.500	0.170	ug/L			11/30/12 14:24	1
4-Methyl-2-pentanone (MIBK)	<10.0	U	10.0	0.810	ug/L			11/30/12 14:24	1
Acetone	14.4 J		50.0	2.66	ug/L			11/30/12 14:24	1
Bromobenzene	<0.500	U	0.500	0.210	ug/L			11/30/12 14:24	1
Chlorobromomethane	<0.500	U	0.500	0.330	ug/L			11/30/12 14:24	1
Dichlorobromomethane	<0.500	U	0.500	0.110	ug/L			11/30/12 14:24	1
Bromoform	<0.500	U	0.500	0.290	ug/L			11/30/12 14:24	1
Bromomethane	<0.500	U	0.500	0.350	ug/L			11/30/12 14:24	1
Carbon disulfide	<0.500	U	0.500	0.220	ug/L			11/30/12 14:24	1
Carbon tetrachloride	<0.500	U	0.500	0.180	ug/L			11/30/12 14:24	1
Chlorobenzene	<0.500	U	0.500	0.180	ug/L			11/30/12 14:24	1
Chlorodibromomethane	<0.500	U	0.500	0.250	ug/L			11/30/12 14:24	1
Chloroethane	<0.500	U	0.500	0.360	ug/L			11/30/12 14:24	1
Chloroform	<0.500	U	0.500	0.230	ug/L			11/30/12 14:24	1
Chloromethane	<0.500	U	0.500	0.300	ug/L			11/30/12 14:24	1
cis-1,2-Dichloroethene	56.6		0.500	0.210	ug/L			11/30/12 14:24	1
cis-1,3-Dichloropropene	<0.500	U *	0.500	0.120	ug/L			11/30/12 14:24	1
Dibromomethane	<0.500	U	0.500	0.310	ug/L			11/30/12 14:24	1
Dichlorodifluoromethane	<0.500	U	0.500	0.440	ug/L			11/30/12 14:24	1

TestAmerica Nashville

Client Sample Results

Client: Cardno ERI
Project/Site: Former Jalk Fee

TestAmerica Job ID: 490-12513-1
SDG: 08115513

Client Sample ID: Dup

Date Collected: 11/16/12 00:01
Date Received: 11/24/12 08:10

Lab Sample ID: 490-12513-12

Matrix: Ground Water

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Hexachlorobutadiene	<1.00	U	1.00	0.210	ug/L			11/30/12 14:24	1
Isopropylbenzene	<1.00	U	1.00	0.170	ug/L			11/30/12 14:24	1
Methylene Chloride	<5.00	U	5.00	0.160	ug/L			11/30/12 14:24	1
Naphthalene	<5.00	U	5.00	0.210	ug/L			11/30/12 14:24	1
n-Butylbenzene	<0.500	U	0.500	0.240	ug/L			11/30/12 14:24	1
N-Propylbenzene	<0.500	U	0.500	0.170	ug/L			11/30/12 14:24	1
4-Isopropyltoluene	<0.500	U	0.500	0.170	ug/L			11/30/12 14:24	1
Styrene	<0.500	U	0.500	0.200	ug/L			11/30/12 14:24	1
sec-Butylbenzene	<0.500	U	0.500	0.170	ug/L			11/30/12 14:24	1
tert-Butylbenzene	<0.500	U	0.500	0.170	ug/L			11/30/12 14:24	1
Tetrachloroethene	218	H	5.00	2.50	ug/L			12/01/12 09:13	10
trans-1,2-Dichloroethene	2.56		0.500	0.230	ug/L			11/30/12 14:24	1
trans-1,3-Dichloropropene	<0.500	U	0.500	0.110	ug/L			11/30/12 14:24	1
Trichloroethene	68.9		0.500	0.200	ug/L			11/30/12 14:24	1
Trichlorofluoromethane	<0.500	U	0.500	0.210	ug/L			11/30/12 14:24	1
Vinyl chloride	5.47		0.500	0.180	ug/L			11/30/12 14:24	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	92		70 - 130		11/30/12 14:24	1
1,2-Dichloroethane-d4 (Surr)	87		70 - 130		12/01/12 09:13	10
4-Bromofluorobenzene (Surr)	101		70 - 130		11/30/12 14:24	1
4-Bromofluorobenzene (Surr)	108		70 - 130		12/01/12 09:13	10
Dibromofluoromethane (Surr)	99		70 - 130		11/30/12 14:24	1
Dibromofluoromethane (Surr)	98		70 - 130		12/01/12 09:13	10
Toluene-d8 (Surr)	102		70 - 130		11/30/12 14:24	1
Toluene-d8 (Surr)	103		70 - 130		12/01/12 09:13	10

Method: 8015B GRO LL - Gasoline Range Organics - (GC)

Analyte	Result	Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
C4-C12	184		50.0	38.0	ug/L			11/26/12 20:30	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
a,a,a-Trifluorotoluene	77		50 - 150					11/26/12 20:30	1

Method: 8015B - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics [C10-C28]	704	J H	909	50.9	ug/L		11/26/12 15:16	11/28/12 08:59	1
ORO C24-C40	385	J H	909	50.9	ug/L		11/26/12 15:16	11/28/12 08:59	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
o-Terphenyl (Surr)	61		50 - 150				11/26/12 15:16	11/28/12 08:59	1

TestAmerica Nashville

QC Sample Results

Client: Cardno ERI

Project/Site: Former Jalk Fee

TestAmerica Job ID: 490-12513-1

SDG: 08115513

Method: 8260B - Volatile Organic Compounds (GC/MS)

Lab Sample ID: MB 490-40097/6

Matrix: Water

Analysis Batch: 40097

Client Sample ID: Method Blank

Prep Type: Total/NA

Analyte	MB	MB	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
	Result	Qualifier							
Benzene	<0.500	U	0.500	0.200	ug/L			11/30/12 08:15	1
Toluene	<0.500	U	0.500	0.170	ug/L			11/30/12 08:15	1
Ethylbenzene	<0.500	U	0.500	0.190	ug/L			11/30/12 08:15	1
Xylenes, Total	<0.500	U	0.500	0.180	ug/L			11/30/12 08:15	1
Methyl tert-butyl ether	<0.500	U	0.500	0.120	ug/L			11/30/12 08:15	1
1,2-Dibromoethane (EDB)	<0.500	U	0.500	0.140	ug/L			11/30/12 08:15	1
1,2-Dichloroethane	<0.500	U	0.500	0.200	ug/L			11/30/12 08:15	1
1,1,1,2-Tetrachloroethane	<0.500	U	0.500	0.150	ug/L			11/30/12 08:15	1
1,1,1-Trichloroethane	<0.500	U	0.500	0.190	ug/L			11/30/12 08:15	1
1,1,2,2-Tetrachloroethane	<0.500	U	0.500	0.190	ug/L			11/30/12 08:15	1
1,1,2-Trichloroethane	<0.500	U	0.500	0.190	ug/L			11/30/12 08:15	1
1,1-Dichloroethane	<0.500	U	0.500	0.240	ug/L			11/30/12 08:15	1
1,1,2-Trichloro-1,2,2-trifluoroethane	<1.00	U	1.00	0.330	ug/L			11/30/12 08:15	1
1,1-Dichloroethene	<0.500	U	0.500	0.250	ug/L			11/30/12 08:15	1
1,1-Dichloropropene	<0.500	U	0.500	0.200	ug/L			11/30/12 08:15	1
1,2,3-Trichlorobenzene	<0.500	U	0.500	0.230	ug/L			11/30/12 08:15	1
1,2,3-Trichloropropane	<0.500	U	0.500	0.230	ug/L			11/30/12 08:15	1
1,2,4-Trichlorobenzene	<0.500	U	0.500	0.150	ug/L			11/30/12 08:15	1
1,2,4-Trimethylbenzene	<0.500	U	0.500	0.170	ug/L			11/30/12 08:15	1
1,2-Dibromo-3-Chloropropane	<5.00	U	5.00	4.21	ug/L			11/30/12 08:15	1
1,2-Dichlorobenzene	<0.500	U	0.500	0.190	ug/L			11/30/12 08:15	1
1,2-Dichloropropane	<0.500	U	0.500	0.250	ug/L			11/30/12 08:15	1
1,3,5-Trimethylbenzene	<0.500	U	0.500	0.150	ug/L			11/30/12 08:15	1
1,3-Dichlorobenzene	<0.500	U	0.500	0.180	ug/L			11/30/12 08:15	1
1,3-Dichloropropane	<0.500	U	0.500	0.190	ug/L			11/30/12 08:15	1
1,4-Dichlorobenzene	<0.500	U	0.500	0.130	ug/L			11/30/12 08:15	1
2,2-Dichloropropane	<0.500	U	0.500	0.160	ug/L			11/30/12 08:15	1
2-Butanone (MEK)	<50.0	U	50.0	2.64	ug/L			11/30/12 08:15	1
2-Chlorotoluene	<0.500	U	0.500	0.180	ug/L			11/30/12 08:15	1
2-Hexanone	<10.0	U	10.0	1.28	ug/L			11/30/12 08:15	1
4-Chlorotoluene	<0.500	U	0.500	0.170	ug/L			11/30/12 08:15	1
4-Methyl-2-pentanone (MIBK)	<10.0	U	10.0	0.810	ug/L			11/30/12 08:15	1
Acetone	<50.0	U	50.0	2.66	ug/L			11/30/12 08:15	1
Bromobenzene	<0.500	U	0.500	0.210	ug/L			11/30/12 08:15	1
Chlorobromomethane	<0.500	U	0.500	0.330	ug/L			11/30/12 08:15	1
Dichlorobromomethane	<0.500	U	0.500	0.110	ug/L			11/30/12 08:15	1
Bromoform	<0.500	U	0.500	0.290	ug/L			11/30/12 08:15	1
Bromomethane	<0.500	U	0.500	0.350	ug/L			11/30/12 08:15	1
Carbon disulfide	<0.500	U	0.500	0.220	ug/L			11/30/12 08:15	1
Carbon tetrachloride	<0.500	U	0.500	0.180	ug/L			11/30/12 08:15	1
Chlorobenzene	<0.500	U	0.500	0.180	ug/L			11/30/12 08:15	1
Chlorodibromomethane	<0.500	U	0.500	0.250	ug/L			11/30/12 08:15	1
Chloroethane	<0.500	U	0.500	0.360	ug/L			11/30/12 08:15	1
Chloroform	<0.500	U	0.500	0.230	ug/L			11/30/12 08:15	1
Chloromethane	<0.500	U	0.500	0.300	ug/L			11/30/12 08:15	1
cis-1,2-Dichloroethene	<0.500	U	0.500	0.210	ug/L			11/30/12 08:15	1
cis-1,3-Dichloropropene	<0.500	U	0.500	0.120	ug/L			11/30/12 08:15	1
Dibromomethane	<0.500	U	0.500	0.310	ug/L			11/30/12 08:15	1

TestAmerica Nashville

QC Sample Results

Client: Cardno ERI
Project/Site: Former Jalk Fee

TestAmerica Job ID: 490-12513-1
SDG: 08115513

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: MB 490-40097/6

Matrix: Water

Analysis Batch: 40097

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB		MB		D	Prepared	Analyzed	Dil Fac	
	Result	Qualifier	PQL	MDL					
Dichlorodifluoromethane	<0.500	U	0.500	0.440	ug/L		11/30/12 08:15	1	
Hexachlorobutadiene	0.7734	J	1.00	0.210	ug/L		11/30/12 08:15	1	
Isopropylbenzene	<1.00	U	1.00	0.170	ug/L		11/30/12 08:15	1	
Methylene Chloride	<5.00	U	5.00	0.160	ug/L		11/30/12 08:15	1	
Naphthalene	<5.00	U	5.00	0.210	ug/L		11/30/12 08:15	1	
n-Butylbenzene	<0.500	U	0.500	0.240	ug/L		11/30/12 08:15	1	
N-Propylbenzene	<0.500	U	0.500	0.170	ug/L		11/30/12 08:15	1	
4-Isopropyltoluene	<0.500	U	0.500	0.170	ug/L		11/30/12 08:15	1	
sec-Butylbenzene	<0.500	U	0.500	0.170	ug/L		11/30/12 08:15	1	
Styrene	<0.500	U	0.500	0.200	ug/L		11/30/12 08:15	1	
tert-Butylbenzene	<0.500	U	0.500	0.170	ug/L		11/30/12 08:15	1	
Tetrachloroethene	<0.500	U	0.500	0.250	ug/L		11/30/12 08:15	1	
trans-1,2-Dichloroethene	<0.500	U	0.500	0.230	ug/L		11/30/12 08:15	1	
trans-1,3-Dichloropropene	<0.500	U	0.500	0.110	ug/L		11/30/12 08:15	1	
Trichloroethene	<0.500	U	0.500	0.200	ug/L		11/30/12 08:15	1	
Trichlorofluoromethane	<0.500	U	0.500	0.210	ug/L		11/30/12 08:15	1	
Vinyl chloride	<0.500	U	0.500	0.180	ug/L		11/30/12 08:15	1	
MB		MB							
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac	
1,2-Dichloroethane-d4 (Surr)	86		70 - 130				11/30/12 08:15	1	
4-Bromofluorobenzene (Surr)	102		70 - 130				11/30/12 08:15	1	
Dibromofluoromethane (Surr)	96		70 - 130				11/30/12 08:15	1	
Toluene-d8 (Surr)	103		70 - 130				11/30/12 08:15	1	

Lab Sample ID: LCS 490-40097/3

Matrix: Water

Analysis Batch: 40097

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike		LCS		D	%Rec	Limits
	Added	Result	Qualifier	Unit			
Benzene	50.0	50.20		ug/L	100	80 - 121	
Toluene	50.0	53.63		ug/L	107	80 - 126	
Ethylbenzene	50.0	51.08		ug/L	102	80 - 130	
Xylenes, Total	150	155.2		ug/L	103	80 - 132	
Methyl tert-butyl ether	50.0	46.61		ug/L	93	72 - 133	
1,2-Dibromoethane (EDB)	50.0	56.36		ug/L	113	80 - 129	
1,2-Dichloroethane	50.0	42.04		ug/L	84	77 - 121	
1,1,1,2-Tetrachloroethane	50.0	49.07		ug/L	98	74 - 135	
1,1,1-Trichloroethane	50.0	44.95		ug/L	90	78 - 135	
1,1,2,2-Tetrachloroethane	50.0	53.34		ug/L	107	69 - 131	
1,1,2-Trichloroethane	50.0	50.36		ug/L	101	80 - 124	
1,1-Dichloroethane	50.0	49.69		ug/L	99	78 - 125	
1,1,2-Trichloro-1,2,2-trifluoroethane	50.0	47.68		ug/L	95	77 - 129	
1,1-Dichloroethene	50.0	59.67		ug/L	119	79 - 124	
1,1-Dichloropropene	50.0	49.28		ug/L	99	80 - 122	
1,2,3-Trichlorobenzene	50.0	55.50		ug/L	111	62 - 133	
1,2,3-Trichloropropane	50.0	48.46		ug/L	97	70 - 131	
1,2,4-Trichlorobenzene	50.0	53.33		ug/L	107	63 - 133	

TestAmerica Nashville

QC Sample Results

Client: Cardno ERI
Project/Site: Former Jalk Fee

TestAmerica Job ID: 490-12513-1
SDG: 08115513

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: LCS 490-40097/3

Matrix: Water

Analysis Batch: 40097

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike	LCS		Unit	D	%Rec	%Rec.
	Added	Result	Qualifier				
1,2,4-Trimethylbenzene	50.0	56.07		ug/L	112	77 - 126	
1,2-Dibromo-3-Chloropropane	50.0	52.99		ug/L	106	54 - 125	
1,2-Dichlorobenzene	50.0	51.69		ug/L	103	80 - 121	
1,2-Dichloropropane	50.0	45.11		ug/L	90	75 - 120	
1,3,5-Trimethylbenzene	50.0	56.73		ug/L	113	77 - 127	
1,3-Dichlorobenzene	50.0	51.37		ug/L	103	80 - 122	
1,3-Dichloropropane	50.0	52.64		ug/L	105	80 - 125	
1,4-Dichlorobenzene	50.0	50.98		ug/L	102	80 - 120	
2,2-Dichloropropane	50.0	46.88		ug/L	94	43 - 161	
2-Butanone (MEK)	250	266.0		ug/L	106	62 - 133	
2-Chlorotoluene	50.0	54.62		ug/L	109	75 - 126	
2-Hexanone	250	271.3		ug/L	109	60 - 142	
4-Chlorotoluene	50.0	53.57		ug/L	107	75 - 130	
4-Methyl-2-pentanone (MIBK)	250	307.7		ug/L	123	60 - 137	
Acetone	250	277.7		ug/L	111	54 - 145	
Bromobenzene	50.0	50.67		ug/L	101	68 - 130	
Chlorobromomethane	50.0	52.61		ug/L	105	78 - 129	
Dichlorobromomethane	50.0	44.24		ug/L	88	75 - 129	
Bromoform	50.0	49.63		ug/L	99	46 - 145	
Bromomethane	50.0	41.36		ug/L	83	41 - 150	
Carbon disulfide	50.0	45.94		ug/L	92	77 - 126	
Carbon tetrachloride	50.0	43.65		ug/L	87	64 - 147	
Chlorobenzene	50.0	52.35		ug/L	105	80 - 120	
Chlorodibromomethane	50.0	50.94		ug/L	102	69 - 133	
Chloroethane	50.0	45.43		ug/L	91	72 - 120	
Chloroform	50.0	48.26		ug/L	97	73 - 129	
Chloromethane	50.0	52.14		ug/L	104	12 - 150	
cis-1,2-Dichloroethene	50.0	45.96		ug/L	92	76 - 125	
cis-1,3-Dichloropropene	50.0	62.27		ug/L	125	74 - 140	
Dibromomethane	50.0	47.38		ug/L	95	71 - 125	
Dichlorodifluoromethane	50.0	51.74		ug/L	103	37 - 127	
Hexachlorobutadiene	50.0	44.39		ug/L	89	49 - 146	
Isopropylbenzene	50.0	55.22		ug/L	110	80 - 141	
Methylene Chloride	50.0	51.68		ug/L	103	79 - 123	
Naphthalene	50.0	55.28		ug/L	111	62 - 138	
n-Butylbenzene	50.0	57.54		ug/L	115	68 - 132	
N-Propylbenzene	50.0	54.81		ug/L	110	75 - 129	
4-Isopropyltoluene	50.0	55.88		ug/L	112	75 - 128	
sec-Butylbenzene	50.0	58.58		ug/L	117	76 - 128	
Styrene	50.0	54.14		ug/L	108	80 - 127	
tert-Butylbenzene	50.0	58.83		ug/L	118	76 - 126	
Tetrachloroethene	50.0	49.29		ug/L	99	80 - 126	
trans-1,2-Dichloroethene	50.0	50.24		ug/L	100	79 - 126	
trans-1,3-Dichloropropene	50.0	49.40		ug/L	99	63 - 134	
Trichloroethene	50.0	46.75		ug/L	94	80 - 123	
Trichlorofluoromethane	50.0	42.58		ug/L	85	65 - 124	
Vinyl chloride	50.0	49.10		ug/L	98	68 - 120	

TestAmerica Nashville

QC Sample Results

Client: Cardno ERI
Project/Site: Former Jalk Fee

TestAmerica Job ID: 490-12513-1
SDG: 08115513

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: LCS 490-40097/3

Matrix: Water

Analysis Batch: 40097

Surrogate	LCS	LCS	%Recovery	Qualifier	Limits
1,2-Dichloroethane-d4 (Surr)			80		70 - 130
4-Bromofluorobenzene (Surr)			103		70 - 130
Dibromofluoromethane (Surr)			93		70 - 130
Toluene-d8 (Surr)			108		70 - 130

Lab Sample ID: LCSD 490-40097/4

Matrix: Water

Analysis Batch: 40097

Analyte	Spike Added	LCS	LCS	Unit	D	%Rec	Limits	RPD	RPD	Limit
		Result	Qualifier							
Benzene	50.0	51.11		ug/L	102	80 - 121		2		17
Toluene	50.0	50.10		ug/L	100	80 - 126		7		15
Ethylbenzene	50.0	52.26		ug/L	105	80 - 130		2		15
Xylenes, Total	150	150.5		ug/L	100	80 - 132		3		15
Methyl tert-butyl ether	50.0	45.10		ug/L	90	72 - 133		3		16
1,2-Dibromoethane (EDB)	50.0	54.43		ug/L	109	80 - 129		3		15
1,2-Dichloroethane	50.0	42.89		ug/L	86	77 - 121		2		17
1,1,1,2-Tetrachloroethane	50.0	49.87		ug/L	100	74 - 135		2		16
1,1,1-Trichloroethane	50.0	45.32		ug/L	91	78 - 135		1		17
1,1,2,2-Tetrachloroethane	50.0	53.81		ug/L	108	69 - 131		1		20
1,1,2-Trichloroethane	50.0	47.30		ug/L	95	80 - 124		6		15
1,1-Dichloroethane	50.0	46.55		ug/L	93	78 - 125		7		17
1,1,2-Trichloro-1,2,2-trifluoroetha ne	50.0	47.61		ug/L	95	77 - 129		0		18
1,1-Dichloroethene	50.0	59.65		ug/L	119	79 - 124		0		17
1,1-Dichloropropene	50.0	47.31		ug/L	95	80 - 122		4		17
1,2,3-Trichlorobenzene	50.0	54.26		ug/L	109	62 - 133		2		25
1,2,3-Trichloropropane	50.0	51.99		ug/L	104	70 - 131		7		19
1,2,4-Trichlorobenzene	50.0	56.81		ug/L	114	63 - 133		6		19
1,2,4-Trimethylbenzene	50.0	55.41		ug/L	111	77 - 126		1		16
1,2-Dibromo-3-Chloropropane	50.0	52.06		ug/L	104	54 - 125		2		24
1,2-Dichlorobenzene	50.0	52.22		ug/L	104	80 - 121		1		15
1,2-Dichloropropene	50.0	45.46		ug/L	91	75 - 120		1		17
1,3,5-Trimethylbenzene	50.0	56.90		ug/L	114	77 - 127		0		17
1,3-Dichlorobenzene	50.0	50.12		ug/L	100	80 - 122		2		15
1,3-Dichloropropane	50.0	50.42		ug/L	101	80 - 125		4		14
1,4-Dichlorobenzene	50.0	51.73		ug/L	103	80 - 120		1		15
2,2-Dichloropropene	50.0	43.62		ug/L	87	43 - 161		7		18
2-Butanone (MEK)	250	259.2		ug/L	104	62 - 133		3		19
2-Chlorotoluene	50.0	53.16		ug/L	106	75 - 126		3		17
2-Hexanone	250	262.5		ug/L	105	60 - 142		3		15
4-Chlorotoluene	50.0	52.33		ug/L	105	75 - 130		2		18
4-Methyl-2-pentanone (MIBK)	250	263.1		ug/L	105	60 - 137		16		17
Acetone	250	271.7		ug/L	109	54 - 145		2		21
Bromobenzene	50.0	53.05		ug/L	106	68 - 130		5		20
Chlorobromomethane	50.0	51.09		ug/L	102	78 - 129		3		17
Dichlorobromomethane	50.0	43.80		ug/L	88	75 - 129		1		18
Bromoform	50.0	48.68		ug/L	97	46 - 145		2		16

TestAmerica Nashville

QC Sample Results

Client: Cardno ERI
Project/Site: Former Jalk Fee

TestAmerica Job ID: 490-12513-1
SDG: 08115513

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: LCSD 490-40097/4

Matrix: Water

Analysis Batch: 40097

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA

Analyte	Spike	LCSD	LCSD	Unit	D	%Rec	Limits	RPD	RPD Limit
	Added	Result	Qualifier						
Bromomethane	50.0	42.81		ug/L	86	41 - 150	3	50	
Carbon disulfide	50.0	44.54		ug/L	89	77 - 126	3	21	
Carbon tetrachloride	50.0	44.31		ug/L	89	64 - 147	2	19	
Chlorobenzene	50.0	51.99		ug/L	104	80 - 120	1	14	
Chlorodibromomethane	50.0	50.41		ug/L	101	69 - 133	1	15	
Chloroethane	50.0	48.32		ug/L	97	72 - 120	6	20	
Chloroform	50.0	46.95		ug/L	94	73 - 129	3	18	
Chloromethane	50.0	44.72		ug/L	89	12 - 150	15	31	
cis-1,2-Dichloroethene	50.0	43.64		ug/L	87	76 - 125	5	17	
cis-1,3-Dichloropropene	50.0	51.02 *		ug/L	102	74 - 140	20	15	
Dibromomethane	50.0	46.62		ug/L	93	71 - 125	2	16	
Dichlorodifluoromethane	50.0	50.90		ug/L	102	37 - 127	2	18	
Hexachlorobutadiene	50.0	42.45		ug/L	85	49 - 146	4	23	
Isopropylbenzene	50.0	55.17		ug/L	110	80 - 141	0	16	
Methylene Chloride	50.0	49.55		ug/L	99	79 - 123	4	17	
Naphthalene	50.0	54.91		ug/L	110	62 - 138	1	26	
n-Butylbenzene	50.0	56.97		ug/L	114	68 - 132	1	18	
N-Propylbenzene	50.0	54.91		ug/L	110	75 - 129	0	17	
4-Isopropyltoluene	50.0	55.41		ug/L	111	75 - 128	1	16	
sec-Butylbenzene	50.0	56.66		ug/L	113	76 - 128	3	16	
Styrene	50.0	55.35		ug/L	111	80 - 127	2	24	
tert-Butylbenzene	50.0	58.96		ug/L	118	76 - 126	0	16	
Tetrachloroethene	50.0	48.96		ug/L	98	80 - 126	1	16	
trans-1,2-Dichloroethene	50.0	46.48		ug/L	93	79 - 126	8	16	
trans-1,3-Dichloropropene	50.0	48.57		ug/L	97	63 - 134	2	14	
Trichloroethene	50.0	47.50		ug/L	95	80 - 123	2	17	
Trichlorofluoromethane	50.0	42.07		ug/L	84	65 - 124	1	18	
Vinyl chloride	50.0	48.51		ug/L	97	68 - 120	1	17	

Surrogate	LCSD	LCSD	Limits
	%Recovery	Qualifier	
1,2-Dichloroethane-d4 (Surr)	85		70 - 130
4-Bromofluorobenzene (Surr)	102		70 - 130
Dibromofluoromethane (Surr)	90		70 - 130
Toluene-d8 (Surr)	95		70 - 130

Lab Sample ID: 490-12513-1 MS

Matrix: Ground Water

Analysis Batch: 40097

Client Sample ID: W-91-MMW-05
Prep Type: Total/NA

Analyte	Sample	Sample	Spike	MS	MS	Unit	D	%Rec	Limits
	Result	Qualifier	Added	Result	Qualifier				
Benzene	<0.500	U	50.0	54.07		ug/L	108	75 - 133	
Toluene	<0.500	U	50.0	56.08		ug/L	112	75 - 136	
Ethylbenzene	<0.500	U	50.0	56.02		ug/L	112	79 - 139	
Xylenes, Total	<0.500	U	150	166.0		ug/L	111	74 - 141	
Methyl tert-butyl ether	<1.00	U	50.0	51.53		ug/L	103	66 - 141	
1,2-Dibromoethane (EDB)	<0.500	U	50.0	59.14		ug/L	118	75 - 137	
1,2-Dichloroethane	4.15		50.0	51.92		ug/L	96	64 - 136	
1,1,1,2-Tetrachloroethane	<0.500	U	50.0	54.95		ug/L	110	73 - 141	

TestAmerica Nashville

QC Sample Results

Client: Cardno ERI

Project/Site: Former Jalk Fee

TestAmerica Job ID: 490-12513-1

SDG: 08115513

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: 490-12513-1 MS

Client Sample ID: W-91-MMW-05

Matrix: Ground Water

Prep Type: Total/NA

Analysis Batch: 40097

Analyte	Sample	Sample	Spike	MS	MS	Unit	D	%Rec	Limits
	Result	Qualifier	Added	Result	Qualifier				
1,1,1-Trichloroethane	0.934		50.0	52.72		ug/L	104	76 - 149	
1,1,2,2-Tetrachloroethane	<0.500	U	50.0	56.43		ug/L	113	56 - 143	
1,1,2-Trichloroethane	0.208	J	50.0	55.66		ug/L	111	74 - 134	
1,1-Dichloroethane	31.3		50.0	81.06		ug/L	100	71 - 139	
1,1,2-Trichloro-1,2,2-trifluoroethane	38.6		50.0	89.14		ug/L	101	72 - 148	
1,1-Dichloroethene	166		50.0	221.2	E	ug/L	110	70 - 142	
1,1-Dichloropropene	<0.500	U	50.0	53.87		ug/L	108	76 - 139	
1,2,3-Trichlorobenzene	<0.500	U	50.0	56.84		ug/L	114	55 - 138	
1,2,3-Trichloropropane	<0.500	U	50.0	53.04		ug/L	106	53 - 144	
1,2,4-Trichlorobenzene	<0.500	U	50.0	55.91		ug/L	112	60 - 136	
1,2,4-Trimethylbenzene	<0.500	U	50.0	55.90		ug/L	112	69 - 136	
1,2-Dibromo-3-Chloropropane	<5.00	U	50.0	54.07		ug/L	108	52 - 126	
1,2-Dichlorobenzene	<0.500	U	50.0	55.17		ug/L	110	79 - 128	
1,2-Dichloropropene	0.392	J	50.0	49.38		ug/L	98	67 - 131	
1,3,5-Trimethylbenzene	<0.500	U	50.0	57.71		ug/L	115	69 - 139	
1,3-Dichlorobenzene	<0.500	U	50.0	53.43		ug/L	107	77 - 131	
1,3-Dichloropropane	<0.500	U	50.0	55.72		ug/L	111	72 - 134	
1,4-Dichlorobenzene	<0.500	U	50.0	55.30		ug/L	111	78 - 126	
2,2-Dichloropropane	<0.500	U	50.0	48.85		ug/L	98	37 - 175	
2-Butanone (MEK)	<50.0	U	250	277.1		ug/L	111	50 - 138	
2-Chlorotoluene	<0.500	U	50.0	53.38		ug/L	107	67 - 138	
2-Hexanone	<10.0	U	250	286.3		ug/L	115	50 - 150	
4-Chlorotoluene	<0.500	U	50.0	54.87		ug/L	110	69 - 138	
4-Methyl-2-pentanone (MIBK)	<10.0	U	250	294.8		ug/L	118	50 - 147	
Acetone	<50.0	U	250	249.0		ug/L	100	45 - 141	
Bromobenzene	<0.500	U	50.0	52.95		ug/L	106	60 - 138	
Chlorobromomethane	<0.500	U	50.0	56.45		ug/L	113	67 - 139	
Dichlorobromomethane	<0.500	U	50.0	52.30		ug/L	105	70 - 140	
Bromoform	<0.500	U	50.0	53.39		ug/L	107	42 - 147	
Bromomethane	<0.500	U	50.0	44.65		ug/L	89	16 - 163	
Carbon disulfide	<0.500	U	50.0	46.08		ug/L	92	48 - 152	
Carbon tetrachloride	<0.500	U	50.0	52.15		ug/L	104	62 - 164	
Chlorobenzene	<0.500	U	50.0	56.41		ug/L	113	80 - 129	
Chlorodibromomethane	<0.500	U	50.0	55.11		ug/L	110	66 - 140	
Chloroethane	<0.500	U	50.0	46.42		ug/L	93	58 - 137	
Chloroform	9.40		50.0	62.06		ug/L	105	66 - 138	
Chloromethane	<0.500	U	50.0	45.51		ug/L	91	10 - 169	
cis-1,2-Dichloroethene	58.0		50.0	105.5		ug/L	95	68 - 138	
cis-1,3-Dichloropropene	<0.500	U *	50.0	57.47		ug/L	115	71 - 141	
Dibromomethane	<0.500	U	50.0	54.36		ug/L	109	58 - 140	
Dichlorodifluoromethane	<0.500	U	50.0	46.70		ug/L	93	40 - 127	
Hexachlorobutadiene	0.300	J B	50.0	40.77		ug/L	81	45 - 155	
Isopropylbenzene	<1.00	U	50.0	59.96		ug/L	120	80 - 153	
Methylene Chloride	<5.00	U	50.0	53.25		ug/L	106	64 - 139	
Naphthalene	<5.00	U	50.0	57.94		ug/L	116	55 - 140	
n-Butylbenzene	<0.500	U	50.0	57.16		ug/L	114	66 - 141	
N-Propylbenzene	<0.500	U	50.0	55.29		ug/L	111	69 - 142	

TestAmerica Nashville

QC Sample Results

Client: Cardno ERI

Project/Site: Former Jalk Fee

TestAmerica Job ID: 490-12513-1

SDG: 08115513

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: 490-12513-1 MS

Client Sample ID: W-91-MMW-05

Matrix: Ground Water

Prep Type: Total/NA

Analysis Batch: 40097

Analyte	Sample	Sample	Spike	MS	MS	Unit	D	%Rec	Limits	
	Result	Qualifier	Added	Result	Qualifier					
4-Isopropyltoluene	<0.500	U	50.0	57.78		ug/L	116	71 - 137		
sec-Butylbenzene	<0.500	U	50.0	57.95		ug/L	116	73 - 138		
Styrene	<0.500	U	50.0	59.41		ug/L	119	61 - 148		
tert-Butylbenzene	<0.500	U	50.0	59.24		ug/L	118	70 - 138		
Tetrachloroethene	192		50.0	253.7	E	ug/L	124	72 - 145		
trans-1,2-Dichloroethene	0.590		50.0	54.29		ug/L	107	66 - 143		
trans-1,3-Dichloropropene	<0.500	U	50.0	52.47		ug/L	105	59 - 135		
Trichloroethene	131		50.0	187.7		ug/L	114	73 - 144		
Trichlorofluoromethane	15.1		50.0	62.17		ug/L	94	58 - 139		
Vinyl chloride	<0.500	U	50.0	49.80		ug/L	100	56 - 129		
MS MS										
Surrogate	%Recovery	Qualifier		Limits						
1,2-Dichloroethane-d4 (Surr)	88			70 - 130						
4-Bromofluorobenzene (Surr)	97			70 - 130						
Dibromofluoromethane (Surr)	98			70 - 130						
Toluene-d8 (Surr)	104			70 - 130						

Lab Sample ID: 490-12513-1 MSD

Client Sample ID: W-91-MMW-05

Matrix: Ground Water

Prep Type: Total/NA

Analysis Batch: 40097

Analyte	Sample	Sample	Spike	MSD	MSD	Unit	D	%Rec	Limits	RPD	Limit
	Result	Qualifier	Added	Result	Qualifier						
Benzene	<0.500	U	50.0	55.19		ug/L	110	75 - 133		2	17
Toluene	<0.500	U	50.0	54.89		ug/L	110	75 - 136		2	15
Ethylbenzene	<0.500	U	50.0	54.58		ug/L	109	79 - 139		3	15
Xylenes, Total	<0.500	U	150	158.7		ug/L	106	74 - 141		4	15
Methyl tert-butyl ether	<1.00	U	50.0	53.99		ug/L	108	66 - 141		5	16
1,2-Dibromoethane (EDB)	<0.500	U	50.0	57.46		ug/L	115	75 - 137		3	15
1,2-Dichloroethane	4.15		50.0	50.84		ug/L	93	64 - 136		2	17
1,1,1,2-Tetrachloroethane	<0.500	U	50.0	52.03		ug/L	104	73 - 141		5	16
1,1,1-Trichloroethane	0.934		50.0	49.70		ug/L	98	76 - 149		6	17
1,1,2,2-Tetrachloroethane	<0.500	U	50.0	60.27		ug/L	121	56 - 143		7	20
1,1,2-Trichloroethane	0.208	J	50.0	55.88		ug/L	111	74 - 134		0	15
1,1-Dichloroethane	31.3		50.0	86.96		ug/L	111	71 - 139		7	17
1,1,2-Trichloro-1,2,2-trifluoroethane	38.6		50.0	91.72		ug/L	106	72 - 148		3	18
1,1-Dichloroethene	166		50.0	228.6	E	ug/L	125	70 - 142		3	17
1,1-Dichloropropene	<0.500	U	50.0	53.17		ug/L	106	76 - 139		1	17
1,2,3-Trichlorobenzene	<0.500	U	50.0	58.07		ug/L	116	55 - 138		2	25
1,2,3-Trichloropropane	<0.500	U	50.0	53.35		ug/L	107	53 - 144		1	19
1,2,4-Trichlorobenzene	<0.500	U	50.0	58.25		ug/L	117	60 - 136		4	19
1,2,4-Trimethylbenzene	<0.500	U	50.0	56.21		ug/L	112	69 - 136		1	16
1,2-Dibromo-3-Chloropropane	<5.00	U	50.0	57.46		ug/L	115	52 - 126		6	24
1,2-Dichlorobenzene	<0.500	U	50.0	55.03		ug/L	110	79 - 128		0	15
1,2-Dichloropropane	0.392	J	50.0	52.00		ug/L	103	67 - 131		5	17
1,3,5-Trimethylbenzene	<0.500	U	50.0	58.04		ug/L	116	69 - 139		1	17
1,3-Dichlorobenzene	<0.500	U	50.0	53.04		ug/L	106	77 - 131		1	15
1,3-Dichloropropane	<0.500	U	50.0	56.16		ug/L	112	72 - 134		1	14

TestAmerica Nashville

QC Sample Results

Client: Cardno ERI

Project/Site: Former Jalk Fee

TestAmerica Job ID: 490-12513-1

SDG: 08115513

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: 490-12513-1 MSD

Client Sample ID: W-91-MMW-05

Matrix: Ground Water

Prep Type: Total/NA

Analysis Batch: 40097

Analyte	Sample	Sample	Spike	MSD	MSD	Unit	D	%Rec	Limits	RPD	RPD
	Result	Qualifier	Added	Result	Qualifier						
1,4-Dichlorobenzene	<0.500	U	50.0	54.02		ug/L		108	78 - 126	2	15
2,2-Dichloropropane	<0.500	U	50.0	47.65		ug/L		95	37 - 175	2	18
2-Butanone (MEK)	<50.0	U	250	282.2		ug/L		113	50 - 138	2	19
2-Chlorotoluene	<0.500	U	50.0	54.80		ug/L		110	67 - 138	3	17
2-Hexanone	<10.0	U	250	298.3		ug/L		119	50 - 150	4	15
4-Chlorotoluene	<0.500	U	50.0	55.86		ug/L		112	69 - 138	2	18
4-Methyl-2-pentanone (MIBK)	<10.0	U	250	302.2		ug/L		121	50 - 147	2	17
Acetone	<50.0	U	250	254.4		ug/L		102	45 - 141	2	21
Bromobenzene	<0.500	U	50.0	55.45		ug/L		111	60 - 138	5	20
Chlorobromomethane	<0.500	U	50.0	54.44		ug/L		109	67 - 139	4	17
Dichlorobromomethane	<0.500	U	50.0	51.85		ug/L		104	70 - 140	1	18
Bromoform	<0.500	U	50.0	50.24		ug/L		100	42 - 147	6	16
Bromomethane	<0.500	U	50.0	48.01		ug/L		96	16 - 163	7	50
Carbon disulfide	<0.500	U	50.0	46.57		ug/L		93	48 - 152	1	21
Carbon tetrachloride	<0.500	U	50.0	47.42		ug/L		95	62 - 164	9	19
Chlorobenzene	<0.500	U	50.0	54.99		ug/L		110	80 - 129	3	14
Chlorodibromomethane	<0.500	U	50.0	52.94		ug/L		106	66 - 140	4	15
Chloroethane	<0.500	U	50.0	46.56		ug/L		93	58 - 137	0	20
Chloroform	9.40		50.0	58.89		ug/L		99	66 - 138	5	18
Chloromethane	<0.500	U	50.0	43.43		ug/L		87	10 - 169	5	31
cis-1,2-Dichloroethene	58.0		50.0	109.8		ug/L		104	68 - 138	4	17
cis-1,3-Dichloropropene	<0.500	U *	50.0	58.16		ug/L		116	71 - 141	1	15
Dibromomethane	<0.500	U	50.0	54.29		ug/L		109	58 - 140	0	16
Dichlorodifluoromethane	<0.500	U	50.0	42.66		ug/L		85	40 - 127	9	18
Hexachlorobutadiene	0.300	JB	50.0	41.63		ug/L		83	45 - 155	2	23
Isopropylbenzene	<1.00	U	50.0	57.52		ug/L		115	80 - 153	4	16
Methylene Chloride	<5.00	U	50.0	54.56		ug/L		109	64 - 139	2	17
Naphthalene	<5.00	U	50.0	59.69		ug/L		119	55 - 140	3	26
n-Butylbenzene	<0.500	U	50.0	59.63		ug/L		119	66 - 141	4	18
N-Propylbenzene	<0.500	U	50.0	56.11		ug/L		112	69 - 142	1	17
4-Isopropyltoluene	<0.500	U	50.0	57.86		ug/L		116	71 - 137	0	16
sec-Butylbenzene	<0.500	U	50.0	59.97		ug/L		120	73 - 138	3	16
Styrene	<0.500	U	50.0	58.62		ug/L		117	61 - 148	1	24
tert-Butylbenzene	<0.500	U	50.0	59.35		ug/L		119	70 - 138	0	16
Tetrachloroethene	192		50.0	237.9	E	ug/L		92	72 - 145	6	16
trans-1,2-Dichloroethene	0.590		50.0	53.79		ug/L		106	66 - 143	1	16
trans-1,3-Dichloropropene	<0.500	U	50.0	52.86		ug/L		106	59 - 135	1	14
Trichloroethene	131		50.0	187.7		ug/L		114	73 - 144	0	17
Trichlorofluoromethane	15.1		50.0	59.12		ug/L		88	58 - 139	5	18
Vinyl chloride	<0.500	U	50.0	48.44		ug/L		97	56 - 129	3	17

Surrogate	MSD	MSD	Limits
	%Recovery	Qualifier	
1,2-Dichloroethane-d4 (Surr)	87		70 - 130
4-Bromofluorobenzene (Surr)	103		70 - 130
Dibromofluoromethane (Surr)	97		70 - 130
Toluene-d8 (Surr)	105		70 - 130

TestAmerica Nashville

QC Sample Results

Client: Cardno ERI

Project/Site: Former Jalk Fee

TestAmerica Job ID: 490-12513-1

SDG: 08115513

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: MB 490-40239/6

Matrix: Water

Analysis Batch: 40239

Client Sample ID: Method Blank

Prep Type: Total/NA

Analyte	MB	MB	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
	Result	Qualifier							
Benzene	<0.500	U	0.500	0.200	ug/L			11/30/12 21:04	1
Toluene	<0.500	U	0.500	0.170	ug/L			11/30/12 21:04	1
Ethylbenzene	<0.500	U	0.500	0.190	ug/L			11/30/12 21:04	1
Xylenes, Total	<0.500	U	0.500	0.180	ug/L			11/30/12 21:04	1
Methyl tert-butyl ether	<1.00	U	1.00	0.120	ug/L			11/30/12 21:04	1
1,2-Dibromoethane (EDB)	<0.500	U	0.500	0.140	ug/L			11/30/12 21:04	1
1,2-Dichloroethane	<0.500	U	0.500	0.200	ug/L			11/30/12 21:04	1
1,1,1,2-Tetrachloroethane	<0.500	U	0.500	0.150	ug/L			11/30/12 21:04	1
1,1,1-Trichloroethane	<0.500	U	0.500	0.190	ug/L			11/30/12 21:04	1
1,1,2,2-Tetrachloroethane	<0.500	U	0.500	0.190	ug/L			11/30/12 21:04	1
1,1,2-Trichloroethane	<0.500	U	0.500	0.190	ug/L			11/30/12 21:04	1
1,1-Dichloroethane	<0.500	U	0.500	0.240	ug/L			11/30/12 21:04	1
1,1,2-Trichloro-1,2,2-trifluoroethane	<1.00	U	1.00	0.330	ug/L			11/30/12 21:04	1
1,1-Dichloroethene	<0.500	U	0.500	0.250	ug/L			11/30/12 21:04	1
1,1-Dichloropropene	<0.500	U	0.500	0.200	ug/L			11/30/12 21:04	1
1,2,3-Trichlorobenzene	<0.500	U	0.500	0.230	ug/L			11/30/12 21:04	1
1,2,3-Trichloropropane	<0.500	U	0.500	0.230	ug/L			11/30/12 21:04	1
1,2,4-Trichlorobenzene	<0.500	U	0.500	0.150	ug/L			11/30/12 21:04	1
1,2,4-Trimethylbenzene	<0.500	U	0.500	0.170	ug/L			11/30/12 21:04	1
1,2-Dibromo-3-Chloropropane	<5.00	U	5.00	4.21	ug/L			11/30/12 21:04	1
1,2-Dichlorobenzene	<0.500	U	0.500	0.190	ug/L			11/30/12 21:04	1
1,2-Dichloropropane	<0.500	U	0.500	0.250	ug/L			11/30/12 21:04	1
1,3,5-Trimethylbenzene	<0.500	U	0.500	0.150	ug/L			11/30/12 21:04	1
1,3-Dichlorobenzene	<0.500	U	0.500	0.180	ug/L			11/30/12 21:04	1
1,3-Dichloropropane	<0.500	U	0.500	0.190	ug/L			11/30/12 21:04	1
1,4-Dichlorobenzene	<0.500	U	0.500	0.130	ug/L			11/30/12 21:04	1
2,2-Dichloropropane	<0.500	U	0.500	0.160	ug/L			11/30/12 21:04	1
2-Butanone (MEK)	<50.0	U	50.0	2.64	ug/L			11/30/12 21:04	1
2-Chlorotoluene	<0.500	U	0.500	0.180	ug/L			11/30/12 21:04	1
2-Hexanone	<10.0	U	10.0	1.28	ug/L			11/30/12 21:04	1
4-Chlorotoluene	<0.500	U	0.500	0.170	ug/L			11/30/12 21:04	1
4-Methyl-2-pentanone (MIBK)	<10.0	U	10.0	0.810	ug/L			11/30/12 21:04	1
Acetone	<50.0	U	50.0	2.66	ug/L			11/30/12 21:04	1
Bromobenzene	<0.500	U	0.500	0.210	ug/L			11/30/12 21:04	1
Chlorobromomethane	<0.500	U	0.500	0.330	ug/L			11/30/12 21:04	1
Dichlorobromomethane	<0.500	U	0.500	0.110	ug/L			11/30/12 21:04	1
Bromoform	<0.500	U	0.500	0.290	ug/L			11/30/12 21:04	1
Bromomethane	<0.500	U	0.500	0.350	ug/L			11/30/12 21:04	1
Carbon disulfide	<0.500	U	0.500	0.220	ug/L			11/30/12 21:04	1
Carbon tetrachloride	<0.500	U	0.500	0.180	ug/L			11/30/12 21:04	1
Chlorobenzene	<0.500	U	0.500	0.180	ug/L			11/30/12 21:04	1
Chlorodibromomethane	<0.500	U	0.500	0.250	ug/L			11/30/12 21:04	1
Chloroethane	<0.500	U	0.500	0.360	ug/L			11/30/12 21:04	1
Chloroform	<0.500	U	0.500	0.230	ug/L			11/30/12 21:04	1
Chloromethane	<0.500	U	0.500	0.300	ug/L			11/30/12 21:04	1
cis-1,2-Dichloroethene	<0.500	U	0.500	0.210	ug/L			11/30/12 21:04	1
cis-1,3-Dichloropropene	<0.500	U	0.500	0.120	ug/L			11/30/12 21:04	1
Dibromomethane	<0.500	U	0.500	0.310	ug/L			11/30/12 21:04	1

TestAmerica Nashville

QC Sample Results

Client: Cardno ERI
Project/Site: Former Jalk Fee

TestAmerica Job ID: 490-12513-1
SDG: 08115513

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: MB 490-40239/6

Matrix: Water

Analysis Batch: 40239

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB	MB	Result	Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac	
	Result	Qualifier										
Dichlorodifluoromethane	<0.500	U	0.500		0.440	ug/L				11/30/12 21:04	1	
Hexachlorobutadiene	0.4804	J			1.00	0.210	ug/L			11/30/12 21:04	1	
Isopropylbenzene	<1.00	U			1.00	0.170	ug/L			11/30/12 21:04	1	
Methylene Chloride	0.2052	J			5.00	0.160	ug/L			11/30/12 21:04	1	
Naphthalene	<5.00	U			5.00	0.210	ug/L			11/30/12 21:04	1	
n-Butylbenzene	<0.500	U			0.500	0.240	ug/L			11/30/12 21:04	1	
N-Propylbenzene	<0.500	U			0.500	0.170	ug/L			11/30/12 21:04	1	
4-Isopropyltoluene	<0.500	U			0.500	0.170	ug/L			11/30/12 21:04	1	
sec-Butylbenzene	<0.500	U			0.500	0.170	ug/L			11/30/12 21:04	1	
Styrene	<0.500	U			0.500	0.200	ug/L			11/30/12 21:04	1	
tert-Butylbenzene	<0.500	U			0.500	0.170	ug/L			11/30/12 21:04	1	
Tetrachloroethene	<0.500	U			0.500	0.250	ug/L			11/30/12 21:04	1	
trans-1,2-Dichloroethene	<0.500	U			0.500	0.230	ug/L			11/30/12 21:04	1	
trans-1,3-Dichloropropene	<0.500	U			0.500	0.110	ug/L			11/30/12 21:04	1	
Trichloroethene	<0.500	U			0.500	0.200	ug/L			11/30/12 21:04	1	
Trichlorofluoromethane	<0.500	U			0.500	0.210	ug/L			11/30/12 21:04	1	
Vinyl chloride	<0.500	U			0.500	0.180	ug/L			11/30/12 21:04	1	
MB MB		Surrogate		%Recovery		Qualifer		Limits		Prepared		
1,2-Dichloroethane-d4 (Surr)		86				70 - 130					11/30/12 21:04	1
4-Bromofluorobenzene (Surr)		109				70 - 130					11/30/12 21:04	1
Dibromofluoromethane (Surr)		97				70 - 130					11/30/12 21:04	1
Toluene-d8 (Surr)		101				70 - 130					11/30/12 21:04	1

Lab Sample ID: LCS 490-40239/3

Matrix: Water

Analysis Batch: 40239

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	MB	MB	LCS Result	LCS Qualifier	Unit	D	%Rec	Limits	Prepared	Analyzed	Dil Fac
		Spke Added	Result Qualifier									
Benzene	50.0		49.41			ug/L		99	80 - 121			
Toluene	50.0		51.80			ug/L		104	80 - 126			
Ethylbenzene	50.0		50.57			ug/L		101	80 - 130			
Xylenes, Total	150		147.8			ug/L		99	80 - 132			
Methyl tert-butyl ether	50.0		49.51			ug/L		99	72 - 133			
1,2-Dibromoethane (EDB)	50.0		55.75			ug/L		112	80 - 129			
1,2-Dichloroethane	50.0		43.17			ug/L		86	77 - 121			
1,1,1,2-Tetrachloroethane	50.0		48.87			ug/L		98	74 - 135			
1,1,1-Trichloroethane	50.0		42.20			ug/L		84	78 - 135			
1,1,2,2-Tetrachloroethane	50.0		55.96			ug/L		112	69 - 131			
1,1,2-Trichloroethane	50.0		53.89			ug/L		108	80 - 124			
1,1-Dichloroethane	50.0		47.46			ug/L		95	78 - 125			
1,1,2-Trichloro-1,2,2-trifluoroethane	50.0		45.25			ug/L		90	77 - 129			
1,1-Dichloroethene	50.0		57.20			ug/L		114	79 - 124			
1,1-Dichloropropene	50.0		46.81			ug/L		94	80 - 122			
1,2,3-Trichlorobenzene	50.0		56.58			ug/L		113	62 - 133			
1,2,3-Trichloropropane	50.0		52.16			ug/L		104	70 - 131			
1,2,4-Trichlorobenzene	50.0		55.88			ug/L		112	63 - 133			

TestAmerica Nashville

QC Sample Results

Client: Cardno ERI
Project/Site: Former Jalk Fee

TestAmerica Job ID: 490-12513-1
SDG: 08115513

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: LCS 490-40239/3

Matrix: Water

Analysis Batch: 40239

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike	LCS	LCS	Unit	D	%Rec	%Rec.
	Added	Result	Qualifier				
1,2,4-Trimethylbenzene	50.0	52.10		ug/L		104	77 - 126
1,2-Dibromo-3-Chloropropane	50.0	53.40		ug/L		107	54 - 125
1,2-Dichlorobenzene	50.0	52.17		ug/L		104	80 - 121
1,2-Dichloropropane	50.0	47.20		ug/L		94	75 - 120
1,3,5-Trimethylbenzene	50.0	53.20		ug/L		106	77 - 127
1,3-Dichlorobenzene	50.0	49.47		ug/L		99	80 - 122
1,3-Dichloropropane	50.0	54.00		ug/L		108	80 - 125
1,4-Dichlorobenzene	50.0	51.08		ug/L		102	80 - 120
2,2-Dichloropropane	50.0	40.96		ug/L		82	43 - 161
2-Butanone (MEK)	250	282.9		ug/L		113	62 - 133
2-Chlorotoluene	50.0	50.75		ug/L		101	75 - 126
2-Hexanone	250	293.0		ug/L		117	60 - 142
4-Chlorotoluene	50.0	51.26		ug/L		103	75 - 130
4-Methyl-2-pentanone (MIBK)	250	296.4		ug/L		119	60 - 137
Acetone	250	281.9		ug/L		113	54 - 145
Bromobenzene	50.0	53.42		ug/L		107	68 - 130
Chlorobromomethane	50.0	52.21		ug/L		104	78 - 129
Dichlorobromomethane	50.0	46.97		ug/L		94	75 - 129
Bromoform	50.0	48.53		ug/L		97	46 - 145
Bromomethane	50.0	47.00		ug/L		94	41 - 150
Carbon disulfide	50.0	43.48		ug/L		87	77 - 126
Carbon tetrachloride	50.0	42.40		ug/L		85	64 - 147
Chlorobenzene	50.0	51.57		ug/L		103	80 - 120
Chlorodibromomethane	50.0	52.03		ug/L		104	69 - 133
Chloroethane	50.0	46.03		ug/L		92	72 - 120
Chloroform	50.0	47.25		ug/L		94	73 - 129
Chloromethane	50.0	47.58		ug/L		95	12 - 150
cis-1,2-Dichloroethene	50.0	45.74		ug/L		91	76 - 125
cis-1,3-Dichloropropene	50.0	55.24		ug/L		110	74 - 140
Dibromomethane	50.0	50.78		ug/L		102	71 - 125
Dichlorodifluoromethane	50.0	49.41		ug/L		99	37 - 127
Hexachlorobutadiene	50.0	39.37		ug/L		79	49 - 146
Isopropylbenzene	50.0	52.65		ug/L		105	80 - 141
Methylene Chloride	50.0	51.33		ug/L		103	79 - 123
Naphthalene	50.0	57.78		ug/L		116	62 - 138
n-Butylbenzene	50.0	53.68		ug/L		107	68 - 132
N-Propylbenzene	50.0	51.41		ug/L		103	75 - 129
4-Isopropyltoluene	50.0	53.60		ug/L		107	75 - 128
sec-Butylbenzene	50.0	54.36		ug/L		109	76 - 128
Styrene	50.0	55.05		ug/L		110	80 - 127
tert-Butylbenzene	50.0	54.02		ug/L		108	76 - 126
Tetrachloroethene	50.0	46.59		ug/L		93	80 - 126
trans-1,2-Dichloroethene	50.0	48.69		ug/L		97	79 - 126
trans-1,3-Dichloropropene	50.0	50.57		ug/L		101	63 - 134
Trichloroethene	50.0	49.93		ug/L		100	80 - 123
Trichlorofluoromethane	50.0	41.74		ug/L		83	65 - 124
Vinyl chloride	50.0	47.86		ug/L		96	68 - 120

TestAmerica Nashville

QC Sample Results

Client: Cardno ERI
Project/Site: Former Jalk Fee

TestAmerica Job ID: 490-12513-1
SDG: 08115513

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: LCS 490-40239/3

Matrix: Water

Analysis Batch: 40239

Surrogate	LCS	LCS	%Recovery	Qualifier	Limits
1,2-Dichloroethane-d4 (Surr)			84		70 - 130
4-Bromofluorobenzene (Surr)			103		70 - 130
Dibromofluoromethane (Surr)			93		70 - 130
Toluene-d8 (Surr)			105		70 - 130

Lab Sample ID: LCSD 490-40239/4

Matrix: Water

Analysis Batch: 40239

Analyte	Spike Added	LCS	LCSD	LCSD	Unit	D	%Rec	Limits	RPD	RPD	Limit
		Result	Qualifier								
Benzene	50.0	50.67		ug/L	101			80 - 121	3		17
Toluene	50.0	51.28		ug/L	103			80 - 126	1		15
Ethylbenzene	50.0	51.36		ug/L	103			80 - 130	2		15
Xylenes, Total	150	151.6		ug/L	101			80 - 132	3		15
Methyl tert-butyl ether	50.0	51.46		ug/L	103			72 - 133	4		16
1,2-Dibromoethane (EDB)	50.0	56.23		ug/L	112			80 - 129	1		15
1,2-Dichloroethane	50.0	44.22		ug/L	88			77 - 121	2		17
1,1,1,2-Tetrachloroethane	50.0	49.41		ug/L	99			74 - 135	1		16
1,1,1-Trichloroethane	50.0	45.56		ug/L	91			78 - 135	8		17
1,1,2,2-Tetrachloroethane	50.0	57.13		ug/L	114			69 - 131	2		20
1,1,2-Trichloroethane	50.0	53.96		ug/L	108			80 - 124	0		15
1,1-Dichloroethane	50.0	51.18		ug/L	102			78 - 125	8		17
1,1,2-Trichloro-1,2,2-trifluoroetha ne	50.0	48.35		ug/L	97			77 - 129	7		18
1,1-Dichloroethylene	50.0	60.23		ug/L	120			79 - 124	5		17
1,1-Dichloropropene	50.0	49.39		ug/L	99			80 - 122	5		17
1,2,3-Trichlorobenzene	50.0	55.91		ug/L	112			62 - 133	1		25
1,2,3-Trichloropropane	50.0	50.59		ug/L	101			70 - 131	3		19
1,2,4-Trichlorobenzene	50.0	55.72		ug/L	111			63 - 133	0		19
1,2,4-Trimethylbenzene	50.0	53.62		ug/L	107			77 - 126	3		16
1,2-Dibromo-3-Chloropropane	50.0	52.22		ug/L	104			54 - 125	2		24
1,2-Dichlorobenzene	50.0	51.76		ug/L	104			80 - 121	1		15
1,2-Dichloropropene	50.0	49.05		ug/L	98			75 - 120	4		17
1,3,5-Trimethylbenzene	50.0	54.34		ug/L	109			77 - 127	2		17
1,3-Dichlorobenzene	50.0	50.48		ug/L	101			80 - 122	2		15
1,3-Dichloropropane	50.0	55.55		ug/L	111			80 - 125	3		14
1,4-Dichlorobenzene	50.0	51.75		ug/L	104			80 - 120	1		15
2,2-Dichloropropene	50.0	42.29		ug/L	85			43 - 161	3		18
2-Butanone (MEK)	250	291.5		ug/L	117			62 - 133	3		19
2-Chlorotoluene	50.0	51.88		ug/L	104			75 - 126	2		17
2-Hexanone	250	306.2		ug/L	122			60 - 142	4		15
4-Chlorotoluene	50.0	51.93		ug/L	104			75 - 130	1		18
4-Methyl-2-pentanone (MIBK)	250	303.9		ug/L	122			60 - 137	2		17
Acetone	250	287.7		ug/L	115			54 - 145	2		21
Bromobenzene	50.0	53.62		ug/L	107			68 - 130	0		20
Chlorobromomethane	50.0	53.64		ug/L	107			78 - 129	3		17
Dichlorobromomethane	50.0	49.22		ug/L	98			75 - 129	5		18
Bromoform	50.0	49.85		ug/L	100			46 - 145	3		16

TestAmerica Nashville

QC Sample Results

Client: Cardno ERI
Project/Site: Former Jalk Fee

TestAmerica Job ID: 490-12513-1
SDG: 08115513

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: LCSD 490-40239/4

Matrix: Water

Analysis Batch: 40239

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA

Analyte	Spike	LCSD	LCSD	Unit	D	%Rec	Limits	RPD	RPD Limit
	Added	Result	Qualifier						
Bromomethane	50.0	47.72		ug/L		95	41 - 150	2	50
Carbon disulfide	50.0	46.19		ug/L		92	77 - 126	6	21
Carbon tetrachloride	50.0	43.23		ug/L		86	64 - 147	2	19
Chlorobenzene	50.0	52.88		ug/L		106	80 - 120	3	14
Chlorodibromomethane	50.0	52.16		ug/L		104	69 - 133	0	15
Chloroethane	50.0	47.32		ug/L		95	72 - 120	3	20
Chloroform	50.0	49.85		ug/L		100	73 - 129	5	18
Chloromethane	50.0	48.52		ug/L		97	12 - 150	2	31
cis-1,2-Dichloroethene	50.0	48.35		ug/L		97	76 - 125	6	17
cis-1,3-Dichloropropene	50.0	55.68		ug/L		111	74 - 140	1	15
Dibromomethane	50.0	51.56		ug/L		103	71 - 125	2	16
Dichlorodifluoromethane	50.0	51.32		ug/L		103	37 - 127	4	18
Hexachlorobutadiene	50.0	39.13		ug/L		78	49 - 146	1	23
Isopropylbenzene	50.0	53.46		ug/L		107	80 - 141	2	16
Methylene Chloride	50.0	53.89		ug/L		108	79 - 123	5	17
Naphthalene	50.0	58.10		ug/L		116	62 - 138	1	26
n-Butylbenzene	50.0	55.06		ug/L		110	68 - 132	3	18
N-Propylbenzene	50.0	51.71		ug/L		103	75 - 129	1	17
4-Isopropyltoluene	50.0	54.08		ug/L		108	75 - 128	1	16
sec-Butylbenzene	50.0	55.48		ug/L		111	76 - 128	2	16
Styrene	50.0	55.87		ug/L		112	80 - 127	1	24
tert-Butylbenzene	50.0	55.50		ug/L		111	76 - 126	3	16
Tetrachloroethene	50.0	48.38		ug/L		97	80 - 126	4	16
trans-1,2-Dichloroethene	50.0	52.52		ug/L		105	79 - 126	8	16
trans-1,3-Dichloropropene	50.0	51.16		ug/L		102	63 - 134	1	14
Trichloroethene	50.0	50.30		ug/L		101	80 - 123	1	17
Trichlorofluoromethane	50.0	42.59		ug/L		85	65 - 124	2	18
Vinyl chloride	50.0	51.05		ug/L		102	68 - 120	6	17

Surrogate	LCSD	LCSD	Limits
	%Recovery	Qualifier	
1,2-Dichloroethane-d4 (Surr)	83		70 - 130
4-Bromofluorobenzene (Surr)	102		70 - 130
Dibromofluoromethane (Surr)	95		70 - 130
Toluene-d8 (Surr)	103		70 - 130

Lab Sample ID: MB 490-40427/6

Matrix: Water

Analysis Batch: 40427

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB	MB	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
	Result	Qualifier							
Benzene	<0.500	U	0.500	0.200	ug/L			12/01/12 07:10	1
Toluene	<0.500	U	0.500	0.170	ug/L			12/01/12 07:10	1
Ethylbenzene	<0.500	U	0.500	0.190	ug/L			12/01/12 07:10	1
Xylenes, Total	<0.500	U	0.500	0.180	ug/L			12/01/12 07:10	1
Methyl tert-butyl ether	<1.00	U	1.00	0.120	ug/L			12/01/12 07:10	1
1,2-Dibromoethane (EDB)	<0.500	U	0.500	0.140	ug/L			12/01/12 07:10	1
1,2-Dichloroethane	<0.500	U	0.500	0.200	ug/L			12/01/12 07:10	1
1,1,1,2-Tetrachloroethane	<0.500	U	0.500	0.150	ug/L			12/01/12 07:10	1

TestAmerica Nashville

QC Sample Results

Client: Cardno ERI

Project/Site: Former Jalk Fee

TestAmerica Job ID: 490-12513-1

SDG: 08115513

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: MB 490-40427/6

Client Sample ID: Method Blank

Matrix: Water

Prep Type: Total/NA

Analysis Batch: 40427

MB MB

Analyte	Result	Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	<0.500	U	0.500	0.190	ug/L			12/01/12 07:10	1
1,1,2,2-Tetrachloroethane	<0.500	U	0.500	0.190	ug/L			12/01/12 07:10	1
1,1,2-Trichloroethane	<0.500	U	0.500	0.190	ug/L			12/01/12 07:10	1
1,1-Dichloroethane	<0.500	U	0.500	0.240	ug/L			12/01/12 07:10	1
1,1,2-Trichloro-1,2,2-trifluoroethane	<1.00	U	1.00	0.330	ug/L			12/01/12 07:10	1
1,1-Dichloroethene	<0.500	U	0.500	0.250	ug/L			12/01/12 07:10	1
1,1-Dichloropropene	<0.500	U	0.500	0.200	ug/L			12/01/12 07:10	1
1,2,3-Trichlorobenzene	<0.500	U	0.500	0.230	ug/L			12/01/12 07:10	1
1,2,3-Trichloropropane	<0.500	U	0.500	0.230	ug/L			12/01/12 07:10	1
1,2,4-Trichlorobenzene	<0.500	U	0.500	0.150	ug/L			12/01/12 07:10	1
1,2,4-Trimethylbenzene	<0.500	U	0.500	0.170	ug/L			12/01/12 07:10	1
1,2-Dibromo-3-Chloropropane	<5.00	U	5.00	4.21	ug/L			12/01/12 07:10	1
1,2-Dichlorobenzene	<0.500	U	0.500	0.190	ug/L			12/01/12 07:10	1
1,2-Dichloropropane	<0.500	U	0.500	0.250	ug/L			12/01/12 07:10	1
1,3,5-Trimethylbenzene	<0.500	U	0.500	0.150	ug/L			12/01/12 07:10	1
1,3-Dichlorobenzene	<0.500	U	0.500	0.180	ug/L			12/01/12 07:10	1
1,3-Dichloropropane	<0.500	U	0.500	0.190	ug/L			12/01/12 07:10	1
1,4-Dichlorobenzene	<0.500	U	0.500	0.130	ug/L			12/01/12 07:10	1
2,2-Dichloropropane	<0.500	U	0.500	0.160	ug/L			12/01/12 07:10	1
2-Butanone (MEK)	<50.0	U	50.0	2.64	ug/L			12/01/12 07:10	1
2-Chlorotoluene	<0.500	U	0.500	0.180	ug/L			12/01/12 07:10	1
2-Hexanone	<10.0	U	10.0	1.28	ug/L			12/01/12 07:10	1
4-Chlorotoluene	<0.500	U	0.500	0.170	ug/L			12/01/12 07:10	1
4-Methyl-2-pentanone (MIBK)	<10.0	U	10.0	0.810	ug/L			12/01/12 07:10	1
Acetone	<50.0	U	50.0	2.66	ug/L			12/01/12 07:10	1
Bromobenzene	<0.500	U	0.500	0.210	ug/L			12/01/12 07:10	1
Chlorobromomethane	<0.500	U	0.500	0.330	ug/L			12/01/12 07:10	1
Dichlorobromomethane	<0.500	U	0.500	0.110	ug/L			12/01/12 07:10	1
Bromoform	<0.500	U	0.500	0.290	ug/L			12/01/12 07:10	1
Bromomethane	<0.500	U	0.500	0.350	ug/L			12/01/12 07:10	1
Carbon disulfide	<0.500	U	0.500	0.220	ug/L			12/01/12 07:10	1
Carbon tetrachloride	<0.500	U	0.500	0.180	ug/L			12/01/12 07:10	1
Chlorobenzene	<0.500	U	0.500	0.180	ug/L			12/01/12 07:10	1
Chlorodibromomethane	<0.500	U	0.500	0.250	ug/L			12/01/12 07:10	1
Chloroethane	<0.500	U	0.500	0.360	ug/L			12/01/12 07:10	1
Chloroform	<0.500	U	0.500	0.230	ug/L			12/01/12 07:10	1
Chloromethane	<0.500	U	0.500	0.300	ug/L			12/01/12 07:10	1
cis-1,2-Dichloroethene	<0.500	U	0.500	0.210	ug/L			12/01/12 07:10	1
cis-1,3-Dichloropropene	<0.500	U	0.500	0.120	ug/L			12/01/12 07:10	1
Dibromomethane	<0.500	U	0.500	0.310	ug/L			12/01/12 07:10	1
Dichlorodifluoromethane	<0.500	U	0.500	0.440	ug/L			12/01/12 07:10	1
Hexachlorobutadiene	0.5554	J	1.00	0.210	ug/L			12/01/12 07:10	1
Isopropylbenzene	<1.00	U	1.00	0.170	ug/L			12/01/12 07:10	1
Methylene Chloride	<5.00	U	5.00	0.160	ug/L			12/01/12 07:10	1
Naphthalene	<5.00	U	5.00	0.210	ug/L			12/01/12 07:10	1
n-Butylbenzene	<0.500	U	0.500	0.240	ug/L			12/01/12 07:10	1
N-Propylbenzene	<0.500	U	0.500	0.170	ug/L			12/01/12 07:10	1
4-Isopropyltoluene	<0.500	U	0.500	0.170	ug/L			12/01/12 07:10	1

TestAmerica Nashville

QC Sample Results

Client: Cardno ERI
Project/Site: Former Jalk Fee

TestAmerica Job ID: 490-12513-1
SDG: 08115513

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: MB 490-40427/6

Matrix: Water

Analysis Batch: 40427

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB	MB	Result	Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
sec-Butylbenzene	<0.500	U	0.500		0.170	ug/L				12/01/12 07:10	1
Styrene	<0.500	U			0.500	0.200	ug/L			12/01/12 07:10	1
tert-Butylbenzene	<0.500	U			0.500	0.170	ug/L			12/01/12 07:10	1
Tetrachloroethene	<0.500	U			0.500	0.250	ug/L			12/01/12 07:10	1
trans-1,2-Dichloroethene	<0.500	U			0.500	0.230	ug/L			12/01/12 07:10	1
trans-1,3-Dichloropropene	<0.500	U			0.500	0.110	ug/L			12/01/12 07:10	1
Trichloroethene	<0.500	U			0.500	0.200	ug/L			12/01/12 07:10	1
Trichlorofluoromethane	<0.500	U			0.500	0.210	ug/L			12/01/12 07:10	1
Vinyl chloride	<0.500	U			0.500	0.180	ug/L			12/01/12 07:10	1

MB MB

Surrogate	MB	MB	%Recovery	Qualifier	Limits		Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	86		86		70 - 130			12/01/12 07:10	1
4-Bromofluorobenzene (Surr)	121		121		70 - 130			12/01/12 07:10	1
Dibromofluoromethane (Surr)	97		97		70 - 130			12/01/12 07:10	1
Toluene-d8 (Surr)	105		105		70 - 130			12/01/12 07:10	1

Lab Sample ID: LCS 490-40427/3

Matrix: Water

Analysis Batch: 40427

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	MB	MB	LCS Result	LCS Qualifier	Unit	D	%Rec	Limits	%Rec.
Benzene	50.0	50.0	50.72			ug/L		101	80 - 121	
Toluene	50.0	50.0	50.58			ug/L		101	80 - 126	
Ethylbenzene	50.0	50.0	50.74			ug/L		101	80 - 130	
Xylenes, Total	150	150	149.2			ug/L		99	80 - 132	
Methyl tert-butyl ether	50.0	50.0	47.56			ug/L		95	72 - 133	
1,2-Dibromoethane (EDB)	50.0	50.0	55.29			ug/L		111	80 - 129	
1,2-Dichloroethane	50.0	50.0	42.62			ug/L		85	77 - 121	
1,1,1,2-Tetrachloroethane	50.0	50.0	48.93			ug/L		98	74 - 135	
1,1,1-Trichloroethane	50.0	50.0	43.63			ug/L		87	78 - 135	
1,1,2,2-Tetrachloroethane	50.0	50.0	64.66			ug/L		129	69 - 131	
1,1,2-Trichloroethane	50.0	50.0	51.06			ug/L		102	80 - 124	
1,1-Dichloroethane	50.0	50.0	49.56			ug/L		99	78 - 125	
1,1,2-Trichloro-1,2,2-trifluoroethane	50.0	50.0	46.48			ug/L		93	77 - 129	
1,1-Dichloroethene	50.0	50.0	59.79			ug/L		120	79 - 124	
1,1-Dichloropropene	50.0	50.0	48.59			ug/L		97	80 - 122	
1,2,3-Trichlorobenzene	50.0	50.0	57.08			ug/L		114	62 - 133	
1,2,3-Trichloropropane	50.0	50.0	59.32			ug/L		119	70 - 131	
1,2,4-Trichlorobenzene	50.0	50.0	54.95			ug/L		110	63 - 133	
1,2,4-Trimethylbenzene	50.0	50.0	63.87 *			ug/L		128	77 - 126	
1,2-Dibromo-3-Chloropropane	50.0	50.0	54.48			ug/L		109	54 - 125	
1,2-Dichlorobenzene	50.0	50.0	52.31			ug/L		105	80 - 121	
1,2-Dichloropropane	50.0	50.0	46.91			ug/L		94	75 - 120	
1,3,5-Trimethylbenzene	50.0	50.0	64.65 *			ug/L		129	77 - 127	
1,3-Dichlorobenzene	50.0	50.0	51.39			ug/L		103	80 - 122	
1,3-Dichloropropene	50.0	50.0	51.65			ug/L		103	80 - 125	
1,4-Dichlorobenzene	50.0	50.0	50.64			ug/L		101	80 - 120	

TestAmerica Nashville

QC Sample Results

Client: Cardno ERI
Project/Site: Former Jalk Fee

TestAmerica Job ID: 490-12513-1
SDG: 08115513

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: LCS 490-40427/3

Matrix: Water

Analysis Batch: 40427

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike	LCS	LCS	Unit	D	%Rec	%Rec.
	Added	Result	Qualifier				
2,2-Dichloropropane	50.0	45.62		ug/L		91	43 - 161
2-Butanone (MEK)	250	259.5		ug/L		104	62 - 133
2-Chlorotoluene	50.0	61.40		ug/L		123	75 - 126
2-Hexanone	250	265.2		ug/L		106	60 - 142
4-Chlorotoluene	50.0	62.74		ug/L		125	75 - 130
4-Methyl-2-pentanone (MIBK)	250	279.2		ug/L		112	60 - 137
Acetone	250	245.9		ug/L		98	54 - 145
Bromobenzene	50.0	64.11		ug/L		128	68 - 130
Chlorobromomethane	50.0	52.17		ug/L		104	78 - 129
Dichlorobromomethane	50.0	48.76		ug/L		98	75 - 129
Bromoform	50.0	47.93		ug/L		96	46 - 145
Bromomethane	50.0	42.76		ug/L		86	41 - 150
Carbon disulfide	50.0	45.18		ug/L		90	77 - 126
Carbon tetrachloride	50.0	42.93		ug/L		86	64 - 147
Chlorobenzene	50.0	51.20		ug/L		102	80 - 120
Chlorodibromomethane	50.0	49.56		ug/L		99	69 - 133
Chloroethane	50.0	48.67		ug/L		97	72 - 120
Chloroform	50.0	47.90		ug/L		96	73 - 129
Chloromethane	50.0	45.85		ug/L		92	12 - 150
cis-1,2-Dichloroethene	50.0	47.04		ug/L		94	76 - 125
cis-1,3-Dichloropropene	50.0	54.59		ug/L		109	74 - 140
Dibromomethane	50.0	48.94		ug/L		98	71 - 125
Dichlorodifluoromethane	50.0	48.64		ug/L		97	37 - 127
Hexachlorobutadiene	50.0	40.42		ug/L		81	49 - 146
Isopropylbenzene	50.0	53.15		ug/L		106	80 - 141
Methylene Chloride	50.0	51.54		ug/L		103	79 - 123
Naphthalene	50.0	56.52		ug/L		113	62 - 138
n-Butylbenzene	50.0	54.62		ug/L		109	68 - 132
N-Propylbenzene	50.0	61.80		ug/L		124	75 - 129
4-Isopropyltoluene	50.0	56.17		ug/L		112	75 - 128
sec-Butylbenzene	50.0	65.98 *		ug/L		132	76 - 128
Styrene	50.0	55.25		ug/L		111	80 - 127
tert-Butylbenzene	50.0	66.45 *		ug/L		133	76 - 126
Tetrachloroethene	50.0	47.61		ug/L		95	80 - 126
trans-1,2-Dichloroethene	50.0	50.05		ug/L		100	79 - 126
trans-1,3-Dichloropropene	50.0	49.03		ug/L		98	63 - 134
Trichloroethene	50.0	48.47		ug/L		97	80 - 123
Trichlorofluoromethane	50.0	43.17		ug/L		86	65 - 124
Vinyl chloride	50.0	51.08		ug/L		102	68 - 120

Surrogate	LCS	LCS	
	%Recovery	Qualifier	Limits
1,2-Dichloroethane-d4 (Surr)	81		70 - 130
4-Bromofluorobenzene (Surr)	120		70 - 130
Dibromofluoromethane (Surr)	93		70 - 130
Toluene-d8 (Surr)	102		70 - 130

TestAmerica Nashville

QC Sample Results

Client: Cardno ERI
Project/Site: Former Jalk Fee

TestAmerica Job ID: 490-12513-1
SDG: 08115513

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: LCSD 490-40427/4

Matrix: Water

Analysis Batch: 40427

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	Limits	RPD	RPD Limit
Benzene	50.0	49.76		ug/L	100	80 - 121	2	17	
Toluene	50.0	50.43		ug/L	101	80 - 126	0	15	
Ethylbenzene	50.0	50.58		ug/L	101	80 - 130	0	15	
Xylenes, Total	150	151.2		ug/L	101	80 - 132	1	15	
Methyl tert-butyl ether	50.0	48.32		ug/L	97	72 - 133	2	16	
1,2-Dibromoethane (EDB)	50.0	57.22		ug/L	114	80 - 129	3	15	
1,2-Dichloroethane	50.0	43.76		ug/L	88	77 - 121	3	17	
1,1,1,2-Tetrachloroethane	50.0	51.18		ug/L	102	74 - 135	4	16	
1,1,1-Trichloroethane	50.0	42.46		ug/L	85	78 - 135	3	17	
1,1,2,2-Tetrachloroethane	50.0	51.76 *		ug/L	104	69 - 131	22	20	
1,1,2-Trichloroethane	50.0	51.39		ug/L	103	80 - 124	1	15	
1,1-Dichloroethane	50.0	48.92		ug/L	98	78 - 125	1	17	
1,1,2-Trichloro-1,2,2-trifluoroethane	50.0	45.64		ug/L	91	77 - 129	2	18	
1,1-Dichloroethylene	50.0	59.14		ug/L	118	79 - 124	1	17	
1,1-Dichloropropene	50.0	48.86		ug/L	98	80 - 122	1	17	
1,2,3-Trichlorobenzene	50.0	55.66		ug/L	111	62 - 133	3	25	
1,2,3-Trichloropropane	50.0	49.79		ug/L	100	70 - 131	17	19	
1,2,4-Trichlorobenzene	50.0	53.03		ug/L	106	63 - 133	4	19	
1,2,4-Trimethylbenzene	50.0	54.01 *		ug/L	108	77 - 126	17	16	
1,2-Dibromo-3-Chloropropane	50.0	47.81		ug/L	96	54 - 125	13	24	
1,2-Dichlorobenzene	50.0	48.32		ug/L	97	80 - 121	8	15	
1,2-Dichloropropane	50.0	47.99		ug/L	96	75 - 120	2	17	
1,3,5-Trimethylbenzene	50.0	52.91 *		ug/L	106	77 - 127	20	17	
1,3-Dichlorobenzene	50.0	50.23		ug/L	100	80 - 122	2	15	
1,3-Dichloropropane	50.0	53.79		ug/L	108	80 - 125	4	14	
1,4-Dichlorobenzene	50.0	50.19		ug/L	100	80 - 120	1	15	
2,2-Dichloropropane	50.0	43.58		ug/L	87	43 - 161	5	18	
2-Butanone (MEK)	250	259.4		ug/L	104	62 - 133	0	19	
2-Chlorotoluene	50.0	49.39 *		ug/L	99	75 - 126	22	17	
2-Hexanone	250	267.6		ug/L	107	60 - 142	1	15	
4-Chlorotoluene	50.0	51.58 *		ug/L	103	75 - 130	20	18	
4-Methyl-2-pentanone (MIBK)	250	263.5		ug/L	105	60 - 137	6	17	
Acetone	250	257.0		ug/L	103	54 - 145	4	21	
Bromobenzene	50.0	50.04 *		ug/L	100	68 - 130	25	20	
Chlorobromomethane	50.0	50.23		ug/L	100	78 - 129	4	17	
Dichlorobromomethane	50.0	48.58		ug/L	97	75 - 129	0	18	
Bromoform	50.0	52.42		ug/L	105	46 - 145	9	16	
Bromomethane	50.0	50.04		ug/L	100	41 - 150	16	50	
Carbon disulfide	50.0	44.01		ug/L	88	77 - 126	3	21	
Carbon tetrachloride	50.0	42.90		ug/L	86	64 - 147	0	19	
Chlorobenzene	50.0	54.07		ug/L	108	80 - 120	5	14	
Chlorodibromomethane	50.0	53.09		ug/L	106	69 - 133	7	15	
Chloroethane	50.0	51.13		ug/L	102	72 - 120	5	20	
Chloroform	50.0	45.82		ug/L	92	73 - 129	4	18	
Chloromethane	50.0	47.76		ug/L	96	12 - 150	4	31	
cis-1,2-Dichloroethene	50.0	44.27		ug/L	89	76 - 125	6	17	
cis-1,3-Dichloropropene	50.0	56.26		ug/L	113	74 - 140	3	15	

TestAmerica Nashville

QC Sample Results

Client: Cardno ERI
Project/Site: Former Jalk Fee

TestAmerica Job ID: 490-12513-1
SDG: 08115513

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: LCSD 490-40427/4

Matrix: Water

Analysis Batch: 40427

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA

Analyte	Spike	LCSD	LCSD	Unit	D	%Rec	Limits	RPD	RPD Limit
	Added	Result	Qualifier						
Dibromomethane	50.0	52.19		ug/L		104	71 - 125	6	16
Dichlorodifluoromethane	50.0	53.13		ug/L		106	37 - 127	9	18
Hexachlorobutadiene	50.0	41.03		ug/L		82	49 - 146	1	23
Isopropylbenzene	50.0	58.50		ug/L		117	80 - 141	10	16
Methylene Chloride	50.0	51.40		ug/L		103	79 - 123	0	17
Naphthalene	50.0	51.51		ug/L		103	62 - 138	9	26
n-Butylbenzene	50.0	50.88		ug/L		102	68 - 132	7	18
N-Propylbenzene	50.0	52.77		ug/L		106	75 - 129	16	17
4-Isopropyltoluene	50.0	53.14		ug/L		106	75 - 128	6	16
sec-Butylbenzene	50.0	54.11 *		ug/L		108	76 - 128	20	16
Styrene	50.0	59.35		ug/L		119	80 - 127	7	24
tert-Butylbenzene	50.0	54.09 *		ug/L		108	76 - 126	21	16
Tetrachloroethene	50.0	50.39		ug/L		101	80 - 126	6	16
trans-1,2-Dichloroethene	50.0	48.65		ug/L		97	79 - 126	3	16
trans-1,3-Dichloropropene	50.0	<0.500 U *		ug/L		0	63 - 134	200	14
Trichloroethene	50.0	49.24		ug/L		98	80 - 123	2	17
Trichlorofluoromethane	50.0	43.92		ug/L		88	65 - 124	2	18
Vinyl chloride	50.0	52.89		ug/L		106	68 - 120	3	17

Surrogate	LCSD	LCSD	Limits
	%Recovery	Qualifier	
1,2-Dichloroethane-d4 (Surr)	83		70 - 130
4-Bromofluorobenzene (Surr)	101		70 - 130
Dibromofluoromethane (Surr)	90		70 - 130
Toluene-d8 (Surr)	105		70 - 130

Method: 8015B GRO LL - Gasoline Range Organics - (GC)

Lab Sample ID: MB 490-38770/6

Matrix: Water

Analysis Batch: 38770

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB	MB	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
	Result	Qualifier							
C4-C12	<50.0	U	50.0	38.0	ug/L			11/26/12 12:13	1
Surrogate	MB	MB							
	%Recovery	Qualifier							
a,a,a-Trifluorotoluene	88		50 - 150					11/26/12 12:13	1

Lab Sample ID: LCS 490-38770/4

Matrix: Water

Analysis Batch: 38770

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike	LCS	LCS	Unit	D	%Rec	Limits
	Added	Result	Qualifier				
C4-C12	1000	944.7		ug/L		94	57 - 140
Surrogate	LCS	LCS					
	%Recovery	Qualifier					
a,a,a-Trifluorotoluene	76		50 - 150				

TestAmerica Nashville

QC Sample Results

Client: Cardno ERI
Project/Site: Former Jalk Fee

TestAmerica Job ID: 490-12513-1
SDG: 08115513

Method: 8015B GRO LL - Gasoline Range Organics - (GC) (Continued)

Lab Sample ID: LCSD 490-38770/28

Matrix: Water

Analysis Batch: 38770

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA

Analyte	Spike	LCSD	LCSD	Unit	D	%Rec	%Rec.	RPD	RPD	Limit
	Added	Result	Qualifier							
C4-C12	1000	885.6		ug/L		89	57 - 140	6	35	
Surrogate										
a,a,a-Trifluorotoluene	74		50 - 150							

Method: 8015B - Diesel Range Organics (DRO) (GC)

Lab Sample ID: MB 490-38948/1-A

Matrix: Water

Analysis Batch: 39073

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 38948

Analyte	MB	MB	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
	Result	Qualifier							
Diesel Range Organics [C10-C28]	<500	U	500	28.0	ug/L		11/26/12 15:16	11/28/12 05:17	1
ORO C24-C40	<500	U	500	28.0	ug/L		11/26/12 15:16	11/28/12 05:17	1
Surrogate									
o-Terphenyl (Surr)	78		50 - 150				11/26/12 15:16	11/28/12 05:17	1

Lab Sample ID: LCS 490-38948/2-A

Matrix: Water

Analysis Batch: 39073

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 38948

Analyte	Spike	LCs	LCs	Unit	D	%Rec	%Rec.
	Added	Result	Qualifier				
Diesel Range Organics [C10-C28]	1000	670.8		ug/L		67	46 - 132
Surrogate							
o-Terphenyl (Surr)	98		50 - 150				

QC Association Summary

Client: Cardno ERI
Project/Site: Former Jalk Fee

TestAmerica Job ID: 490-12513-1
SDG: 08115513

GC/MS VOA

Analysis Batch: 40097

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
490-12513-1	W-91-MMW-05	Total/NA	Ground Water	8260B	
490-12513-1 MS	W-91-MMW-05	Total/NA	Ground Water	8260B	
490-12513-1 MSD	W-91-MMW-05	Total/NA	Ground Water	8260B	
490-12513-2	W-90-MW6A	Total/NA	Ground Water	8260B	
490-12513-3	W-88-MW6B	Total/NA	Ground Water	8260B	
490-12513-4	W-89-MW6C	Total/NA	Ground Water	8260B	
490-12513-5	W-90-MW7A	Total/NA	Ground Water	8260B	
490-12513-6	W-89-MW7B	Total/NA	Ground Water	8260B	
490-12513-7	W-90-MW7C	Total/NA	Ground Water	8260B	
490-12513-8	W-90-MW10A	Total/NA	Ground Water	8260B	
490-12513-9	W-89-MW10B	Total/NA	Ground Water	8260B	
490-12513-10	W-89-MW10C	Total/NA	Ground Water	8260B	
490-12513-11	QCTB	Total/NA	Ground Water	8260B	
490-12513-12	Dup	Total/NA	Ground Water	8260B	
LCS 490-40097/3	Lab Control Sample	Total/NA	Water	8260B	
LCSD 490-40097/4	Lab Control Sample Dup	Total/NA	Water	8260B	
MB 490-40097/6	Method Blank	Total/NA	Water	8260B	

Analysis Batch: 40239

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
490-12513-2	W-90-MW6A	Total/NA	Ground Water	8260B	
490-12513-3	W-88-MW6B	Total/NA	Ground Water	8260B	
490-12513-4	W-89-MW6C	Total/NA	Ground Water	8260B	
LCS 490-40239/3	Lab Control Sample	Total/NA	Water	8260B	
LCSD 490-40239/4	Lab Control Sample Dup	Total/NA	Water	8260B	
MB 490-40239/6	Method Blank	Total/NA	Water	8260B	

Analysis Batch: 40427

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
490-12513-8	W-90-MW10A	Total/NA	Ground Water	8260B	
490-12513-12	Dup	Total/NA	Ground Water	8260B	
LCS 490-40427/3	Lab Control Sample	Total/NA	Water	8260B	
LCSD 490-40427/4	Lab Control Sample Dup	Total/NA	Water	8260B	
MB 490-40427/6	Method Blank	Total/NA	Water	8260B	

GC VOA

Analysis Batch: 38770

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
490-12513-1	W-91-MMW-05	Total/NA	Ground Water	8015B GRO LL	
490-12513-2	W-90-MW6A	Total/NA	Ground Water	8015B GRO LL	
490-12513-3	W-88-MW6B	Total/NA	Ground Water	8015B GRO LL	
490-12513-4	W-89-MW6C	Total/NA	Ground Water	8015B GRO LL	
490-12513-5	W-90-MW7A	Total/NA	Ground Water	8015B GRO LL	
490-12513-6	W-89-MW7B	Total/NA	Ground Water	8015B GRO LL	
490-12513-7	W-90-MW7C	Total/NA	Ground Water	8015B GRO LL	
490-12513-8	W-90-MW10A	Total/NA	Ground Water	8015B GRO LL	
490-12513-9	W-89-MW10B	Total/NA	Ground Water	8015B GRO LL	
490-12513-10	W-89-MW10C	Total/NA	Ground Water	8015B GRO LL	
490-12513-12	Dup	Total/NA	Ground Water	8015B GRO LL	

QC Association Summary

Client: Cardno ERI
Project/Site: Former Jalk Fee

TestAmerica Job ID: 490-12513-1
SDG: 08115513

GC VOA (Continued)

Analysis Batch: 38770 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
LCS 490-38770/4	Lab Control Sample	Total/NA	Water	8015B GRO LL	
LCSD 490-38770/28	Lab Control Sample Dup	Total/NA	Water	8015B GRO LL	
MB 490-38770/6	Method Blank	Total/NA	Water	8015B GRO LL	

GC Semi VOA

Prep Batch: 38948

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
490-12513-1	W-91-MMW-05	Total/NA	Ground Water	3510C	
490-12513-2	W-90-MW6A	Total/NA	Ground Water	3510C	
490-12513-3	W-88-MW6B	Total/NA	Ground Water	3510C	
490-12513-4	W-89-MW6C	Total/NA	Ground Water	3510C	
490-12513-5	W-90-MW7A	Total/NA	Ground Water	3510C	
490-12513-6	W-89-MW7B	Total/NA	Ground Water	3510C	
490-12513-7	W-90-MW7C	Total/NA	Ground Water	3510C	
490-12513-8	W-90-MW10A	Total/NA	Ground Water	3510C	
490-12513-9	W-89-MW10B	Total/NA	Ground Water	3510C	
490-12513-10	W-89-MW10C	Total/NA	Ground Water	3510C	
490-12513-12	Dup	Total/NA	Ground Water	3510C	
LCS 490-38948/2-A	Lab Control Sample	Total/NA	Water	3510C	
MB 490-38948/1-A	Method Blank	Total/NA	Water	3510C	

Analysis Batch: 39073

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
490-12513-1	W-91-MMW-05	Total/NA	Ground Water	8015B	38948
490-12513-2	W-90-MW6A	Total/NA	Ground Water	8015B	38948
490-12513-3	W-88-MW6B	Total/NA	Ground Water	8015B	38948
490-12513-4	W-89-MW6C	Total/NA	Ground Water	8015B	38948
490-12513-5	W-90-MW7A	Total/NA	Ground Water	8015B	38948
490-12513-6	W-89-MW7B	Total/NA	Ground Water	8015B	38948
490-12513-7	W-90-MW7C	Total/NA	Ground Water	8015B	38948
490-12513-8	W-90-MW10A	Total/NA	Ground Water	8015B	38948
490-12513-9	W-89-MW10B	Total/NA	Ground Water	8015B	38948
490-12513-10	W-89-MW10C	Total/NA	Ground Water	8015B	38948
490-12513-12	Dup	Total/NA	Ground Water	8015B	38948
LCS 490-38948/2-A	Lab Control Sample	Total/NA	Water	8015B	38948
MB 490-38948/1-A	Method Blank	Total/NA	Water	8015B	38948

Lab Chronicle

Client: Cardno ERI
Project/Site: Former Jalk Fee

TestAmerica Job ID: 490-12513-1
SDG: 08115513

Client Sample ID: W-91-MMW-05

Lab Sample ID: 490-12513-1
Matrix: Ground Water

Date Collected: 11/16/12 11:31
Date Received: 11/24/12 08:10

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B		1	40097	11/30/12 09:16	AF	TAL NSH
Total/NA	Analysis	8015B GRO LL		1	38770	11/26/12 15:28	GM	TAL NSH
Total/NA	Prep	3510C			38948	11/26/12 15:16	RH	TAL NSH
Total/NA	Analysis	8015B		1	39073	11/28/12 05:54	JF	TAL NSH

Client Sample ID: W-90-MW6A

Lab Sample ID: 490-12513-2
Matrix: Ground Water

Date Collected: 11/16/12 07:19
Date Received: 11/24/12 08:10

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B		1	40097	11/30/12 09:47	AF	TAL NSH
Total/NA	Analysis	8260B		10	40239	11/30/12 21:35	AF	TAL NSH
Total/NA	Analysis	8015B GRO LL		1	38770	11/26/12 15:58	GM	TAL NSH
Total/NA	Prep	3510C			38948	11/26/12 15:16	RH	TAL NSH
Total/NA	Analysis	8015B		1	39073	11/28/12 06:13	JF	TAL NSH

Client Sample ID: W-88-MW6B

Lab Sample ID: 490-12513-3
Matrix: Ground Water

Date Collected: 11/16/12 07:44
Date Received: 11/24/12 08:10

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B		1	40097	11/30/12 10:18	AF	TAL NSH
Total/NA	Analysis	8260B		50	40239	11/30/12 22:05	AF	TAL NSH
Total/NA	Analysis	8015B GRO LL		1	38770	11/26/12 16:28	GM	TAL NSH
Total/NA	Prep	3510C			38948	11/26/12 15:16	RH	TAL NSH
Total/NA	Analysis	8015B		1	39073	11/28/12 06:31	JF	TAL NSH

Client Sample ID: W-89-MW6C

Lab Sample ID: 490-12513-4
Matrix: Ground Water

Date Collected: 11/16/12 08:15
Date Received: 11/24/12 08:10

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B		1	40097	11/30/12 10:49	AF	TAL NSH
Total/NA	Analysis	8260B		10	40239	11/30/12 22:36	AF	TAL NSH
Total/NA	Analysis	8015B GRO LL		1	38770	11/26/12 16:59	GM	TAL NSH
Total/NA	Prep	3510C			38948	11/26/12 15:16	RH	TAL NSH
Total/NA	Analysis	8015B		1	39073	11/28/12 06:50	JF	TAL NSH

TestAmerica Nashville

Lab Chronicle

Client: Cardno ERI
Project/Site: Former Jalk Fee

TestAmerica Job ID: 490-12513-1
SDG: 08115513

Client Sample ID: W-90-MW7A

Date Collected: 11/16/12 02:53
Date Received: 11/24/12 08:10

Lab Sample ID: 490-12513-5
Matrix: Ground Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B		1	40097	11/30/12 11:19	AF	TAL NSH
Total/NA	Analysis	8015B GRO LL		1	38770	11/26/12 17:29	GM	TAL NSH
Total/NA	Prep	3510C			38948	11/26/12 15:16	RH	TAL NSH
Total/NA	Analysis	8015B		1	39073	11/28/12 07:08	JF	TAL NSH

Client Sample ID: W-89-MW7B

Date Collected: 11/16/12 03:23
Date Received: 11/24/12 08:10

Lab Sample ID: 490-12513-6
Matrix: Ground Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B		1	40097	11/30/12 11:50	AF	TAL NSH
Total/NA	Analysis	8015B GRO LL		1	38770	11/26/12 17:59	GM	TAL NSH
Total/NA	Prep	3510C			38948	11/26/12 15:16	RH	TAL NSH
Total/NA	Analysis	8015B		1	39073	11/28/12 07:26	JF	TAL NSH

Client Sample ID: W-90-MW7C

Date Collected: 11/16/12 03:53
Date Received: 11/24/12 08:10

Lab Sample ID: 490-12513-7
Matrix: Ground Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B		1	40097	11/30/12 12:21	AF	TAL NSH
Total/NA	Analysis	8015B GRO LL		1	38770	11/26/12 18:29	GM	TAL NSH
Total/NA	Prep	3510C			38948	11/26/12 15:16	RH	TAL NSH
Total/NA	Analysis	8015B		1	39073	11/28/12 07:45	JF	TAL NSH

Client Sample ID: W-90-MW10A

Date Collected: 11/16/12 04:35
Date Received: 11/24/12 08:10

Lab Sample ID: 490-12513-8
Matrix: Ground Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B		1	40097	11/30/12 12:52	AF	TAL NSH
Total/NA	Analysis	8260B		10	40427	12/01/12 08:42	AF	TAL NSH
Total/NA	Analysis	8015B GRO LL		1	38770	11/26/12 18:59	GM	TAL NSH
Total/NA	Prep	3510C			38948	11/26/12 15:16	RH	TAL NSH
Total/NA	Analysis	8015B		1	39073	11/28/12 08:03	JF	TAL NSH

Client Sample ID: W-89-MW10B

Date Collected: 11/16/12 05:30
Date Received: 11/24/12 08:10

Lab Sample ID: 490-12513-9
Matrix: Ground Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B		1	40097	11/30/12 13:22	AF	TAL NSH

TestAmerica Nashville

Lab Chronicle

Client: Cardno ERI
Project/Site: Former Jalk Fee

TestAmerica Job ID: 490-12513-1
SDG: 08115513

Client Sample ID: W-89-MW10B

Date Collected: 11/16/12 05:30
Date Received: 11/24/12 08:10

Lab Sample ID: 490-12513-9

Matrix: Ground Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8015B GRO LL		1	38770	11/26/12 19:30	GM	TAL NSH
Total/NA	Prep	3510C			38948	11/26/12 15:16	RH	TAL NSH
Total/NA	Analysis	8015B		1	39073	11/28/12 08:22	JF	TAL NSH

Client Sample ID: W-89-MW10C

Date Collected: 11/16/12 06:39
Date Received: 11/24/12 08:10

Lab Sample ID: 490-12513-10

Matrix: Ground Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B		1	40097	11/30/12 13:53	AF	TAL NSH
Total/NA	Analysis	8015B GRO LL		1	38770	11/26/12 20:00	GM	TAL NSH
Total/NA	Prep	3510C			38948	11/26/12 15:16	RH	TAL NSH
Total/NA	Analysis	8015B		1	39073	11/28/12 08:40	JF	TAL NSH

Client Sample ID: QCTB

Date Collected: 11/16/12 06:00
Date Received: 11/24/12 08:10

Lab Sample ID: 490-12513-11

Matrix: Ground Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B		1	40097	11/30/12 08:45	AF	TAL NSH

Client Sample ID: Dup

Date Collected: 11/16/12 00:01
Date Received: 11/24/12 08:10

Lab Sample ID: 490-12513-12

Matrix: Ground Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B		1	40097	11/30/12 14:24	AF	TAL NSH
Total/NA	Analysis	8260B		10	40427	12/01/12 09:13	AF	TAL NSH
Total/NA	Analysis	8015B GRO LL		1	38770	11/26/12 20:30	GM	TAL NSH
Total/NA	Prep	3510C			38948	11/26/12 15:16	RH	TAL NSH
Total/NA	Analysis	8015B		1	39073	11/28/12 08:59	JF	TAL NSH

Laboratory References:

TAL NSH = TestAmerica Nashville, 2960 Foster Creighton Drive, Nashville, TN 37204, TEL (615)726-0177

TestAmerica Nashville

Method Summary

Client: Cardno ERI

Project/Site: Former Jalk Fee

TestAmerica Job ID: 490-12513-1

SDG: 08115513

Method	Method Description	Protocol	Laboratory
8260B	Volatile Organic Compounds (GC/MS)	SW846	TAL NSH
8015B GRO LL	Gasoline Range Organics - (GC)	SW846	TAL NSH
8015B	Diesel Range Organics (DRO) (GC)	SW846	TAL NSH

Protocol References:

SW846 = "Test Methods For Evaluating Solid Waste, Physical/Chemical Methods", Third Edition, November 1986 And Its Updates.

Laboratory References:

TAL NSH = TestAmerica Nashville, 2960 Foster Creighton Drive, Nashville, TN 37204, TEL (615)726-0177

Certification Summary

Client: Cardno ERI

Project/Site: Former Jalk Fee

TestAmerica Job ID: 490-12513-1

SDG: 08115513

Laboratory: TestAmerica Nashville

Unless otherwise noted, all analytes for this laboratory were covered under each certification below.

Authority	Program	EPA Region	Certification ID	Expiration Date
California	NELAC	9	1168CA	10-31-13

The following analytes are included in this report, but are not certified under this certification:

Analysis Method	Prep Method	Matrix	Analyte
8015B	3510C	Ground Water	Diesel Range Organics [C10-C28]
8015B	3510C	Ground Water	ORO C24-C40
8015B	3510C	Water	Diesel Range Organics [C10-C28]
8015B	3510C	Water	ORO C24-C40

The following analytes are included in this report, but certification is not offered by the governing authority:

Analysis Method	Prep Method	Matrix	Analyte
8260B		Ground Water	tert-Butylbenzene
8260B		Water	tert-Butylbenzene

COOLER RECEIPT FORM



490-12513 Chain of Custody

Cooler Received/Opened On 11/24/2012 @ 08101. Tracking # 5770 (last 4 digits, FedEx)

Courier: Fed-ex IR Gun: 12080142

2. Temperature of rep. sample or temp blank when opened: 15 Degrees Celsius3. If Item #2 temperature is 0°C or less, was the representative sample or temp blank frozen? YES NO NA4. Were custody seals on outside of cooler? YES NO...NAIf yes, how many and where: Front5. Were the seals intact, signed, and dated correctly? YES...NO...NA6. Were custody papers inside cooler? YES...NO...NAI certify that I opened the cooler and answered questions 1-6 (initial) ✓7. Were custody seals on containers: YES NO and Intact YES...NO...NAWere these signed and dated correctly? YES...NO...NA

8. Packing mat'l used? Bubblewrap Plastic bag Peanuts Vermiculite Foam Insert Paper Other None

9. Cooling process: Ice Ice-pack Ice (direct contact) Dry ice Other None10. Did all containers arrive in good condition (unbroken)? YES...NO...NA11. Were all container labels complete (#, date, signed, pres., etc)? YES...NO...NA12. Did all container labels and tags agree with custody papers? YES...NO...NA

13a. Were VOA vials received?

b. Was there any observable headspace present in any VOA vial? YES...NO...NA14. Was there a Trip Blank in this cooler? YES...NO...NA If multiple coolers, sequence # I certify that I unloaded the cooler and answered questions 7-14 (initial) ✓

15a. On pres'd bottles, did pH test strips suggest preservation reached the correct pH level? YES...NO...NA

b. Did the bottle labels indicate that the correct preservatives were used YES...NO...NA16. Was residual chlorine present? YES...NO...NAI certify that I checked for chlorine and pH as per SOP and answered questions 15-16 (initial) ✓17. Were custody papers properly filled out (ink, signed, etc)? YES...NO...NA18. Did you sign the custody papers in the appropriate place? YES...NO...NA19. Were correct containers used for the analysis requested? YES...NO...NA20. Was sufficient amount of sample sent in each container? YES...NO...NAI certify that I entered this project into LIMS and answered questions 17-20 (initial) ✓I certify that I attached a label with the unique LIMS number to each container (initial) ✓21. Were there Non-Conformance issues at login? YES NO Was a PIPE generated? YES NO...# 2394823949500 mls
TPH D_{ro}

COOLER RECEIPT FORM

Cooler Received/Opened On 11/24/2012@ 8:10

1. Tracking # 5752 (last 4 digits, FedEx)Courier: Fedex IR Gun ID 176101762. Temperature of rep. sample or temp blank when opened: 32 Degrees Celsius

3. If Item #2 temperature is 0°C or less, was the representative sample or temp blank frozen? YES NO...NA

4. Were custody seals on outside of cooler? YES...NO...NAIf yes, how many and where: Front5. Were the seals intact, signed, and dated correctly? YES...NO...NA6. Were custody papers inside cooler? YES...NO...NAI certify that I opened the cooler and answered questions 1-6 (initial) JH7. Were custody seals on containers: YES NO and Intact YES...NO...NAWere these signed and dated correctly? YES...NO...NA

8. Packing mat'l used? Bubblewrap Plastic bag Peanuts Vermiculite Foam Insert Paper Other None

9. Cooling process: Ice Ice-pack Ice (direct contact) Dry ice Other None

10. Did all containers arrive in good condition (unbroken)? YES...NO...NA11. Were all container labels complete (#, date, signed, pres., etc)? YES...NO...NA12. Did all container labels and tags agree with custody papers? YES...NO...NA13a. Were VOA vials received? YES...NO...NAb. Was there any observable headspace present in any VOA vial? YES...NO...NA14. Was there a Trip Blank in this cooler? YES...NO...NA If multiple coolers, sequence # 1I certify that I unloaded the cooler and answered questions 7-14 (initial) 1

15a. On pres'd bottles, did pH test strips suggest preservation reached the correct pH level? YES...NO...NA

b. Did the bottle labels indicate that the correct preservatives were used YES...NO...NA16. Was residual chlorine present? YES...NO...NAI certify that I checked for chlorine and pH as per SOP and answered questions 15-16 (initial) ✓17. Were custody papers properly filled out (ink, signed, etc)? YES...NO...NA18. Did you sign the custody papers in the appropriate place? YES...NO...NA19. Were correct containers used for the analysis requested? YES...NO...NA20. Was sufficient amount of sample sent in each container? YES...NO...NAI certify that I entered this project into LIMS and answered questions 17-20 (initial) ✓I certify that I attached a label with the unique LIMS number to each container (initial) ✓21. Were there Non-Conformance Issues at login? YES...NO Was a PIPE generated? YES...NO...#

COOLER RECEIPT FORM

Cooler Received/Opened On 11/24/2012 @ 08101. Tracking # 5730 (last 4 digits, FedEx)Courier: FedEx IR Gun ID 182904552. Temperature of rep. sample or temp blank when opened: 13 Degrees Celsius

3. If Item #2 temperature is 0°C or less, was the representative sample or temp blank frozen? YES NO...NA

4. Were custody seals on outside of cooler? YES...NO...NAIf yes, how many and where: (2) Front5. Were the seals intact, signed, and dated correctly? YES...NO...NA6. Were custody papers inside cooler? YES...NO...NAI certify that I opened the cooler and answered questions 1-6 (initial) WQ7. Were custody seals on containers: YES NO and Intact YES...NO...NAWere these signed and dated correctly? YES...NO...NA

8. Packing mat'l used? Bubblewrap Plastic bag Peanuts Vermiculite Foam Insert Paper Other None

9. Cooling process: Ice Ice-pack Ice (direct contact) Dry ice Other None10. Did all containers arrive in good condition (unbroken)? YES...NO...NA11. Were all container labels complete (#, date, signed, pres., etc)? YES...NO...NA12. Did all container labels and tags agree with custody papers? YES...NO...NA13a. Were VOA vials received? YES...NO...NAb. Was there any observable headspace present in any VOA vial? YES...NO...NA14. Was there a Trip Blank in this cooler? YES...NO...NA If multiple coolers, sequence # I certify that I unloaded the cooler and answered questions 7-14 (initial)

15a. On pres'd bottles, did pH test strips suggest preservation reached the correct pH level? YES...NO...NA

b. Did the bottle labels indicate that the correct preservatives were used YES...NO...NA16. Was residual chlorine present? YES...NO...NAI certify that I checked for chlorine and pH as per SOP and answered questions 15-16 (initial) 17. Were custody papers properly filled out (ink, signed, etc)? YES...NO...NA18. Did you sign the custody papers in the appropriate place? YES...NO...NA19. Were correct containers used for the analysis requested? YES...NO...NA20. Was sufficient amount of sample sent in each container? YES...NO...NAI certify that I entered this project into LIMS and answered questions 17-20 (initial) I certify that I attached a label with the unique LIMS number to each container (initial) 21. Were there Non-Conformance Issues at login? YES...NO Was a PIPE generated? YES...NO...#



Nashville Division

Phone: 615-726-0177

2960 Foster Creighton

Toll Free: 800-765-0980

Nashville, TN 37204

Fax: 615-726-3404



12/4/2012

Consultant Name: Cardno ERI

Account #: N/A

PO#: JALK-TA-2012

page 2 of 2

Consultant Address: 4572 Telephone Road, Suite 916

Invoice To: Aaron Thom

Consultant City/State/Zip: Ventura, CA 93003

Report To: Alex Fuentes

ExxonMobil Project Mgr: Aaron Thom

ERI Project #/Activity #: 08115513

Consultant Project Mgr: James Anderson

ExxonMobil Site #: Former Jalk Fee

AFE #: XA.2011.53908

Consultant Telephone Number: (805) 644-4157 x 181802

Fax No.: (805) 644-5610

Site Address: 10607 Norwalk Blvd.

Sampler Name (Print): Alex Chairez

Site City, State, Zip: Santa Fe Springs, CA 90670

Sampler Signature:

Oversight Agency: CRWQCB-LAR

Sample ID	Field Point Name/ Location ID	Date Sampled	Time Sampled	No. of Containers Shipped	Preservative	Matrix	Analyze For:																								
								Grab	Composite	Field Filtered	Methanol	Sodium Bisulfate	HCl	NaOH	H ₂ SO ₄ Plastic	H ₂ SO ₄ Glass	HNO ₃	Ice	Other	None	Groundwater	Wastewater	Drinking Water	Sludge	Soil	Air	Other (specify):	full scan 8260B (M)	TPH, 8260B (M)	TPH, TPHco TPHco (M)	RUSH TAT (24 hour)
W-MW10C	MW10C	11/16/12	07:35	7	X			X																							
W-MW10A	MW10A	11/16/12	07:30	7	X			X																							
W-MW10B	MW10B	11/16/12	07:30	7	X			X																							
W-MW10C	MW10C	11/16/12	06:39	7	X			X																							
QCTB	QCTB	11/16/12	06:00	3	X			X																							
dup	dup	11/16/12	XXXX	7	X			X																							

Comments/Special Instructions:

Exclude oxygenates from 8260B analysis

GLOBAL ID # SL184801463 / ERL

PLEASE E-MAIL ALL PDF FILES TO
alexander.fuentes@cardno.com and ERI-EMLABS@eri-us.com
geotracker08@eri-us.com

Laboratory Comments:

Temperature Upon Receipt: 5.9
Sample Containers Intact? Y N
VOA Vials Free of Headspace? Y N

Relinquished by:

Date

11/16/12

Time

1341

Received by:

Cardno Fridge

Date

11/16/12

Time

1341

Relinquished by:

Date

11/20/12

Time

1324

Received by (Lab personnel):

Natalie Ormsby

Date

11/20/12

Time

13:24

QC Deliverables (please circle one):

Level 2

Level 3

Level 4

Site Specific - if yes, please attach pre-schedule w/ TestAmerica
Project Manager or attach specific instructions

*Mass Grav 11-20-12 18:00 TSP Solution 11/20/12 18:20
Re. TSP Sodablow 400g 11-23-12 17:00 wt/TAN 11/24/12 08:10*

Login Sample Receipt Checklist

Client: Cardno ERI

Job Number: 490-12513-1

SDG Number: 08115513

Login Number: 12513

List Source: TestAmerica Nashville

List Number: 1

Creator: Gambill, Shane

Question	Answer	Comment
Radioactivity wasn't checked or is </= background as measured by a survey meter.	True	
The cooler's custody seal, if present, is intact.	True	
Sample custody seals, if present, are intact.	True	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	1.5 / 3.2 / 1.3
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the containers received and the COC.	True	
Samples are received within Holding Time.	False	Refer to Job Narrative for details.
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	N/A	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	False	Insufficient volume received for requested analysis.
Containers requiring zero headspace have no headspace or bubble is <6mm (1/4").	True	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Residual Chlorine Checked.	N/A	

NON-HAZARDOUS WATER BILL OF LADING

Generator: ExxonMobil Oil Corporation

Generator address: 2555 W. 190th St. #1106, Torrance, CA 90504

Site: Talk Fee

Address: 10607 Norwalk Blvd.

City/State: Santa Fe Springs, CA

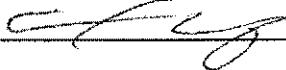
Generation date: 11-16-12

Amount purged: 1000533 gallons

Source of water: purging of various wells

In case of emergency, contact Cardno ERI at (805) 644-4157.

The above-listed, non-hazardous wastewater is/was transported to Cardno ERI's facility located at 4572 Telephone Rd., #916 Ventura, California 93003. Upon arrival at Cardno ERI's Ventura facility, waste is/was immediately transferred to a temporary holding tank, and later transported by vacuum truck under a separate manifest to the final TSDF for recycling.

Employee signature 

Date: 11-16-12

NON-HAZARDOUS WATER BILL OF LADING

Generator: ExxonMobil Oil Corporation

Generator address: 2555 W. 190th St. #1106, Torrance, CA 90504

Site: Dalk Feec

Address: 10607 Norwalk Blvd.

City/State: Santa Fe Springs, CA

Generation date: 11-17-12

Amount purged: 392 gallons

Source of water: purging of various wells

In case of emergency, contact Cardno ERI at (805) 644-4157.

The above-listed, non-hazardous wastewater is/was transported to Cardno ERI's facility located at 4572 Telephone Rd., #916 Ventura, California 93003. Upon arrival at Cardno ERI's Ventura facility, waste is/was immediately transferred to a temporary holding tank, and later transported by vacuum truck under a separate manifest to the final TSDF for recycling.

Employee signature 

Date: 11/17/12

SOP-5
WELL SAMPLING & SURVEYING
Rev 6/05

WELL SAMPLING AND SURVEYING

- 1) Open well heads. This may require a socket or a special Allen wrench.
- 2) If the wells are not surveyed by a licensed land surveyor, then survey the wells if this hasn't been done before as follows:
 - a) Select a permanent benchmark (e.g. curb at corner of site, property line). Record on "SURVEYGW" form.
 - b) Measure and record rectangular coordinates from benchmark to each well.
 - c) Set up tripod and transit where it can see all wells and the benchmark = Station "A". If you can't see all wells, two transit locations must be used. At least one well surveyed from Station "A" must be resurveyed from Station "B". Preferably, two or more wells are resurveyed.
 - d) Carefully level the tripod using the bubble indicator.
 - e) Place stadia rod on benchmark and record height from crosshair to reference, (D_o).
 - f) Place stadia rod on each well (at the notch) and record ht. from well to crosshair, (D_w).
 - g) Calculate casing elevation as shown on data sheet SURVEYGW.

To check the accuracy in leveling the transit, set the transit in second spot and repeat steps 2c through 2g. Recalculation of casing elevations should agree within 0.01 ft. or a third placement of the tripod will be required.

- 3) Set up a decon station. This consists of four (4) buckets. Fill the first with deionized water and one (1) teaspoon (approximately one cap full) of Liquinox soap. Fill the next three (3) buckets with deionized water. To decon a probe or water level indicator, place the element and the tape in the buckets in series, finishing with a good rise. To decon a pump, place the pump, hose and wire leads into the buckets in series, and circulate water through the pump in each bucket. Move the equipment from the dirtiest to cleanest bucket, rinsing thoroughly in each bucket.
- 4) Decon the interface probe or water level indicator before inserting into each well. Review the historical groundwater concentrations and sample from cleanest well to hottest well, deconing between each well. Lower probe/indicator until it beeps - raise and lower and mark the level on the tape with your thumb. Estimate level to the nearest 0.01 ft. Note the depth to free product if present as indicated by the interface probe and the depth to water on your field notes and log. Note any odor when the probe is withdrawn from the well. Look for the notch or ink mark on the top of the well and measure all levels from that. Notch should be on the highest side of the well pipe. If no side is high, notch should be on the north side. Measure from the casing adjacent to the notch - not from the bottom of the notch. If there is no notch - make one. For sites that have free product, or historically have had free product, use a bailer to remove a sample of the top of the water column and measure the product in the bailer or look for a sheen. Take a picture of any bailers with product after labeling the bailer with the well number.
- 5) If there is free product, do not purge or sample. The presence of liquid phase hydrocarbons means the concentration in the water will be high anyway and the pump will be difficult to get clean enough to avoid contaminating other wells.
- 6) Developing: If the well has not been developed (it is new), surge the well by moving bailer up and down vigorously in the well for about 5 minutes. This will wash silt from the sand pack into the well where it can be removed.
- 7) Pull out as much silt as possible by running the bailer all the way to the bottom and withdrawing. Continue bailing until water is fairly clear or until local regulatory specifications are met. Removal of silt with the bailer will extend the pump life. Contact the Project Manager if water does not clear up by 10 casing volumes.

- 8) Decon pump by washing in TSP/water the rinsing with tap water and rinsing again with deionized water. Then pump clean water through the pump to push out any dirty water.
- 9) **Purging:** Place pump in well about 2 to 5 feet off bottom. Withdraw at least 3 casing volumes from the well, or until temperature, pH and conductivity stabilize (see local regulations). Be careful not to let the pump run dry. If an electric purging pump is used, such as a Grundfos pump, check the water level in the well with the water level indicator and slow pump down when water level is within 2 ft of the pump head. While purging, collect a water sample as often as possible and check for pH, conductivity, and temperature. Stable pH and conductivity would indicate the well has been filled with representative groundwater and purging is complete. If well recharges slowly, remove 1.5 casing volumes. Estimate flow rates by recording the time it takes to fill a 5-gallon bucket (1/2 of a 55-gallon barrel, etc.)
- 10) Decon pump thoroughly between each well by repeating step 7.
- 11) Label bottles with a "Sharpie Pen" when they are dry. Label as W-xx-MWY, where xx is water depth below surface in feet and y is well number (refer to SOP-1).
- 12) After the well has been developed, sample the water using a disposable bailer and surgical gloves to prevent oil from your hands from contaminating the sample. Be sure to leave no headspace or bubbles in any water sample to be tested for volatiles. Wells should be sampled within (24) hours of purging and the well should have recovered to within 80% of its volume before purging. (Slow recharge wells need to be addressed with the Project Manager - and may have to be purged slowly). Gasoline contaminated water requires at least three (3) 40 ml VOA's from each well. Preserve samples by acidifying to pH <2 (usually with two drops of HCl). Water suspected of contamination with oil or diesel requires 2 1-liter samples in amber bottles. Samples contaminated with oil will require 10 drops of H₂SO₄ for preservation. Samples for organic lead require two (2) 1-liter amber bottles.
- 13) Place like vials in a baggie and label the baggie. Put vials and baggie in an ice chest filled with ice and document samples and analyses required on a chain of custody. Take samples to the laboratory the same day samples are collected if possible, at least within 24 hours.
- 14) Clean wellhead gaskets (seals), put locking caps on the wells and replace the covers. Cover and label the drums (if any) of purge and decon water.

<u>Analysis</u>	<u>Bottles</u>	<u>Preservative</u>
8015 mod gasoline/8020(602)	min. of 3 x 40 ml VOA	2 drops HCl to pH <2
8015 mod diesel/8020(602)	2 1-liter & 3 x 40 ml VOA	2 drops HCl to pH <2 (applied to VOA's)
418.1 (TRPH)	2 1-liter amber	10 drops H ₂ SO ₄ to pH <2
Organic Lead	2 1-liter amber	no preservative suggested
HOC - 8010 (601)	min. of 3 x 40 ml VOA	no preservative suggested

Items Needed:

Water Level Indicator	Distilled Water
Disposable Bailers	4 Buckets
Generator	Bottle Brush
Grundfos Pump and Reel	TSP Detergent
Grundfos Pump Control Box	Stainless Steel Cable or Poly Rope
Hydac Cond/Temp/pH Meter	Cooler with Ice
Liter Bottles	Socket set and Allen Wrench (CNI Key)
VOAs	Plastic sheeting

Items Needed for Surveying:

Topcon AT-F7 Transit
Tripod
Stadia Rod

SOP-6
Quarterly Well Monitoring
Rev 6/05

QUARTERLY WELL MONITORING

- 1) Give the site manager advance notification of field activities. Arrange for a sufficient number of drums. Obtain a site plan with the location and ID's of the wells to be monitored and a copy of the table from the last quarterly report with the previous groundwater data.
- 2) Open well heads. This may require a socket or a special allen wrench.
- 3) Set up decon station per SOP-5. Measure groundwater depths with water level indicator as per SOP-5 before any other action is taken. If the depth to the bottom of the monitoring well is unknown, reel out the water level indicator until you feel the probe contact the bottom. You may have to raise and lower the probe several times to "feel" contact with the bottom. The probe is not very heavy, and the bottom of the well may have a cushioning layer of silt. Record the depth of the well once you feel confident the probe is at the bottom. Note odors from well.
- 4) Calculate the linear footage of water in each well, by subtracting the depth to water from the total well depth. To obtain the casing volume in gallons, multiply the linear footage by a constant for the given well casing diameter. Typically, three casing volumes are purged from each well prior to sampling.
Always Round up - if 3.4 gallons, then purge 4 gallons - if 12.1 gallons, then purge 13 gallons.

<u>Casing diameter</u>	<u>Gallons per linear foot</u>
2"	0.17
4"	0.66
6"	1.50
8"	2.60

- 5) After measuring all water levels, begin purging the wells in order of the cleanest to the most contaminated based on last quarter's data. Well purging procedures are outlined in SOP-5. While wells containing free floating product may not be sampled, the project manager may want the free product removed manually by bailer. Check with the project manager before bailing LPH. You may find that for shallow wells, it may be quicker to bail manually rather than set up the pump. Place purge and decon water in a 55-gallon drum or treat on site. Do not mix purge water from different wells in one drum. Record all purge data on Groundwater Sampling Field Logs. Record "LPH" and the thickness in feet and inches (to nearest 1/16 of an inch) in the comments section if a measurable level of LPH present. If non-measurable amount present then record "Sheen" in the comments section.
- 6) When the well has recovered at least 80% of its' original water level, collect samples using a clean, new disposable bailer. Use a new disposable bailer for each well. Make sure the rope or line is tied securely on the bailer, you don't want to go fishing. Sample in order of the cleanest to the most contaminated. If required, collect field (equipment) blanks.
- 7) Trip blanks are a QA/QC procedure that must be collected at every site. Obtain a trip blank from the laboratory. They will make them up for you. The trip blank to taken unopened to the site and is kept with the other samples in the cooler unopened during the day's sampling. Label the bottle as an arbitrary monitoring well. For example: if there are 5 monitoring wells to be sampled at the site, the trip blank should be labeled as if it were a sample from MW6. The trip blank is never opened and it is used to determine if any contaminants are introduced by the laboratory or during transportation of the samples.
- 8) Field (equipment) blanks are a QA/QC procedure to be collected at the project manager's discretion (or always for LACDPW sites). To collect a field blank decon a bailer thoroughly; pour distilled water into the bailer; pour the distilled water from the bailer into appropriate sample bottle(s) for the analysis

to be performed, allow for no headspace; label the bottle as an arbitrary monitoring well. For example: if there are 5 monitoring wells to be sampled at the site plus a trip blank, and a field blank is to be collected, the field blank should be labeled as if it were a sample from MW7 (the trip blank is MW6). If a disposable bailer is used for sampling, use a new disposable bailer to collect the field blank.

- 9) Label sample containers when they are dry (refer to SOP-1). Place vials from each well in a separate plastic zip lock bag. Put bag in an ice chest and document samples and analyses required on a chain of custody (see attached examples).
- 10) Replace the locking caps, and the covers. Cover and label the drums of waste water. Place the drums on site in a location selected by the site manager. Usually, this will be near a dumpster or in the back, away from public view. Labels should face outward.
- 11) Decon all equipment per SOP-5 before leaving the site.

In general, groundwater sampling will be performed in accordance with LUFT guidelines. Several local agencies require that groundwater sampling occur under slightly different guidelines. Check with the project manager to find out which sites require special groundwater sampling procedures. Typically, the following apply:

Orange County Health Care Agency Requirements

No special requirements. Water sampling will be performed as per the State Water Resources Board's LUFT manual.

LARWQCB Groundwater Requirements

- o Purge a minimum of three well volumes if recovery is fast, or one borehole volume if recovery is slow (water does not recover to 80% of original level within two hours).
- o The last three readings must be within 10% for conductivity, temperature, and pH to show stabilization. This means that all three consecutive readings must be within these limits - the first with the middle, and the first with the last, and the middle with the last. For instance, pH readings of 6.92, 6.95, and 7.00 would be sufficient.
- o Even though there are no guidelines for turbidity, the measurements should be less than 10 NTU, or meet the baseline level established during development, upon completion of purging. Check with project manager if you use the baseline turbidity level.
- o Prior to sampling document recovery time by measuring the water level in each well to prove that at least 80% recovery has occurred.
- o A trip blank must be collected.
- o In the comments column of the chain of custody, write "Prepare laboratory report in WIP format."

San Diego Department of Health Services Groundwater Sampling Requirements

- o SDDHS does not encourage purging wells until dry.
- o Purge one borehole volume of water if recovery is fast, collecting pH/temperature/conductivity measurements while purging, then remove an additional one-half borehole volume of water. If the first and second measurements vary by less than 10%, purging is considered adequate. If not, keep purging water in one-half borehole volume increments until the measurements vary by less than 10%, or three borehole volumes have been removed. Obtain three consecutive pH/temperature/conductivity measurements that are within 10% of each other.

- o If recovery is slow (water does not recover to 80% of original level within two hours) purge only one borehole volume of water.
- o Prior to sampling document recovery time by measuring the water level in each well to prove that at least 80% recovery has occurred.

Ventura County Environmental Health Division
Groundwater Sampling Requirements

- o A trip blank and a duplicate sample must be analyzed for each site.
- o Custody seals must be place over the cap of each sample.

Under certain conditions the calculated purge volumes will need to be calculated in borehole volumes instead of well casings volumes. Use the following to calculate borehole volume in gallons.

<u>Well I.D.</u>	<u>Bore Volume</u>
2"	0.90 gal/ft. in water
4"/or nested wells	1.70 gal/ft. in water

The completed groundwater sampling log must contain:

- pH/temp./conductivity and turbidity measurements indicating stabilization
- time and volume of water removed at each pH/temp./conductivity measurements
- total volume of water purged
- name of personnel performing sampling
- date and project number
- problems or unusual conditions arising during purging or sampling, such as the well going dry during purging, water in the well vault, missing well caps or locks, odors, appearance of purge water, etc.
- 80% recovery measurement and time of measurement after purging and before sampling

All chains of custody for the client's groundwater sites must contain the consultant work release number, station identification number and client contact among the other items to be filled out. Check the groundwater sampling field log and chain of custody for completeness, accuracy and neatness. If you have any questions, call!!!

Make sure that the date and time of relinquished and accepted at the lab are the same on the chain of custody. Also, make sure the lab fills in the sample condition information and signs for the samples on the chain of custody

Santa Barbara County Environmental Health Services
Groundwater Monitoring Guidelines

- I. Groundwater Monitoring
 - A. Groundwater levels are to be monitored/measured in **all wells** in a short time span.
 - B. Measure the groundwater levels (correct for "free product" thickness).
 - C. Use a clear bailer to check for the presence of "floating product," sheen, and odors.
 - D. Replace well cover until ready to purge well.
- II. Purging
 - A. Amount: generally 3 to 5 (no more than 10) well volumes; via bailer, pumps, or vacuum truck.
 - B. Parameters (pH, temperature, conductivity) shall stabilize while purging.

1. Measure the parameters of a small volume (i.e., a 500 ml) of the water as it is removed from the well. Measure the parameters initially and at regular volume intervals (e.g., after every well casing volume). More frequent testing may be needed if the well is known to go dry.
 2. Wells must be allowed to recharge prior to sampling (see section G of the Santa Barbara County LUFT Manual).
- C. Slow recharging wells are wells that are purged dry before removing 3 well volumes of water, and take more than **two (2)** hours to recharge.
1. Note this on the field records and estimate the number of well volumes removed.
 2. Allow the well to recharge a minimum of two (2) feet and then sample.
 3. **Sample wells no later than 24 hours after purging.**
 4. Note the water level and percentage of recharge in the report.

III. Sample Collection

- A. Use either a decontaminated Teflon, stainless steel, or disposable bailer.
- B. Sample containers are to be supplied and certified by a laboratory:
 1. VOAs of 40 ml volume (at least 3 per well – check with lab and the PM for specific requirements); fill VOAs first to reduce volatilization.
 2. 4 oz sample containers for Pb (metallic lead) analysis (if needed).
- C. Fill containers by pouring along the inside of the vial to reduce volatilization.
- D. Form a positive meniscus with the water, to avoid trapping air, before placing the cap on the VOA. **Samples with headspace are not acceptable for analysis.**
 1. Check for bubbles by inverting and tapping gently to dislodge bubbles.
 2. If bubbles are found, uncap and repeat steps C and D.
- E. Label all samples and store immediately in an ice chest at 4 degrees Celsius filled with ice.
- F. Be careful to properly decontaminate equipment between each and every well.